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VO-AG TEACHER

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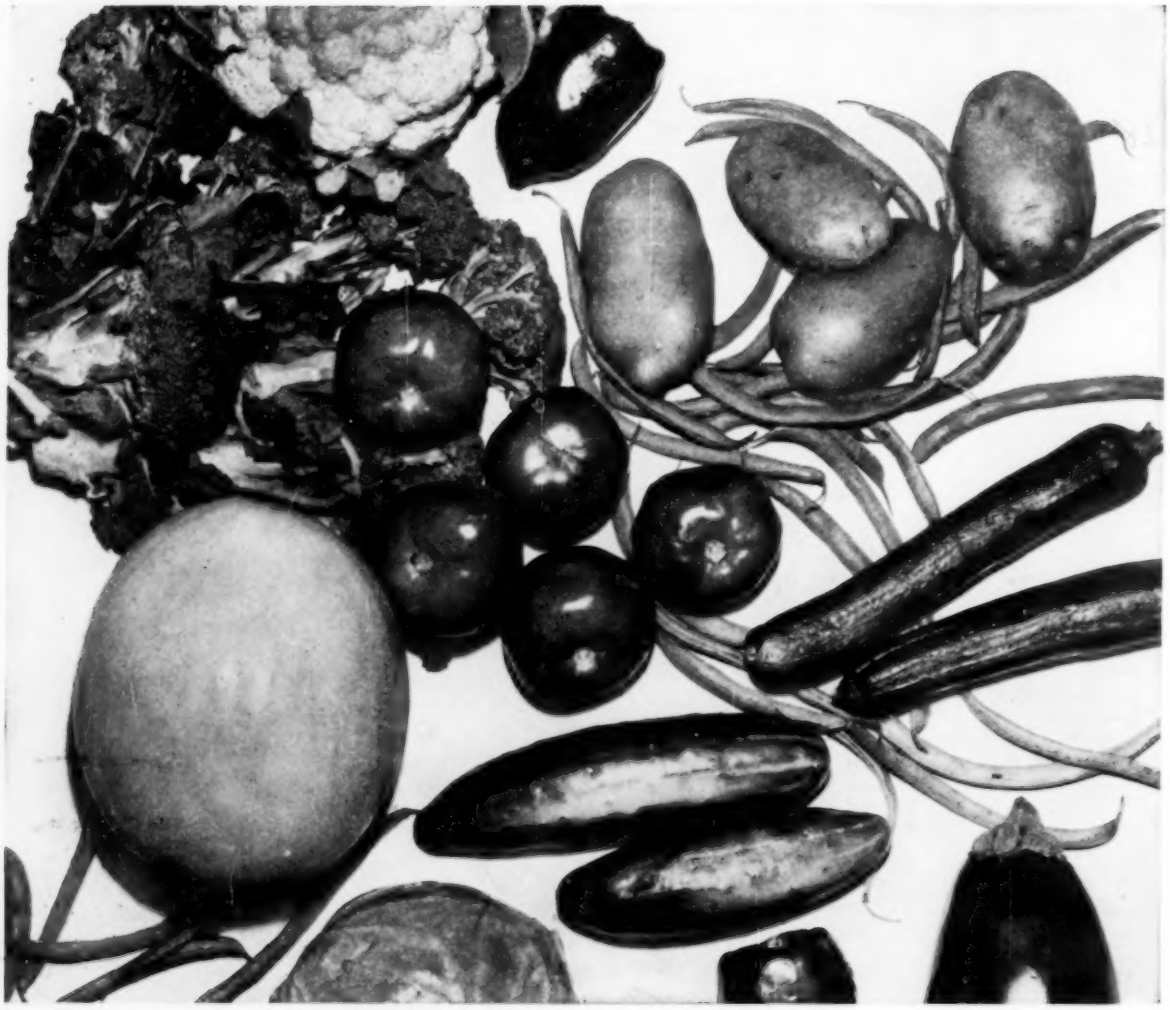

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COUNTY AGENT VO-AG TEACHER

JANUARY, 1961
Vol. 17 No. 1

THE MAGAZINE FOR AGRICULTURAL LEADERS

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Twelfth NVATA Convention Report 40

Floyd Johnson, York, South Carolina is named president of the association at its convention, attended by about 250 teachers from 43 states. Applications for the office of executive secretary will be received until February 1.

Sound Management Decisions Mean Bigger Farm Profits D. F. WILKIN 52

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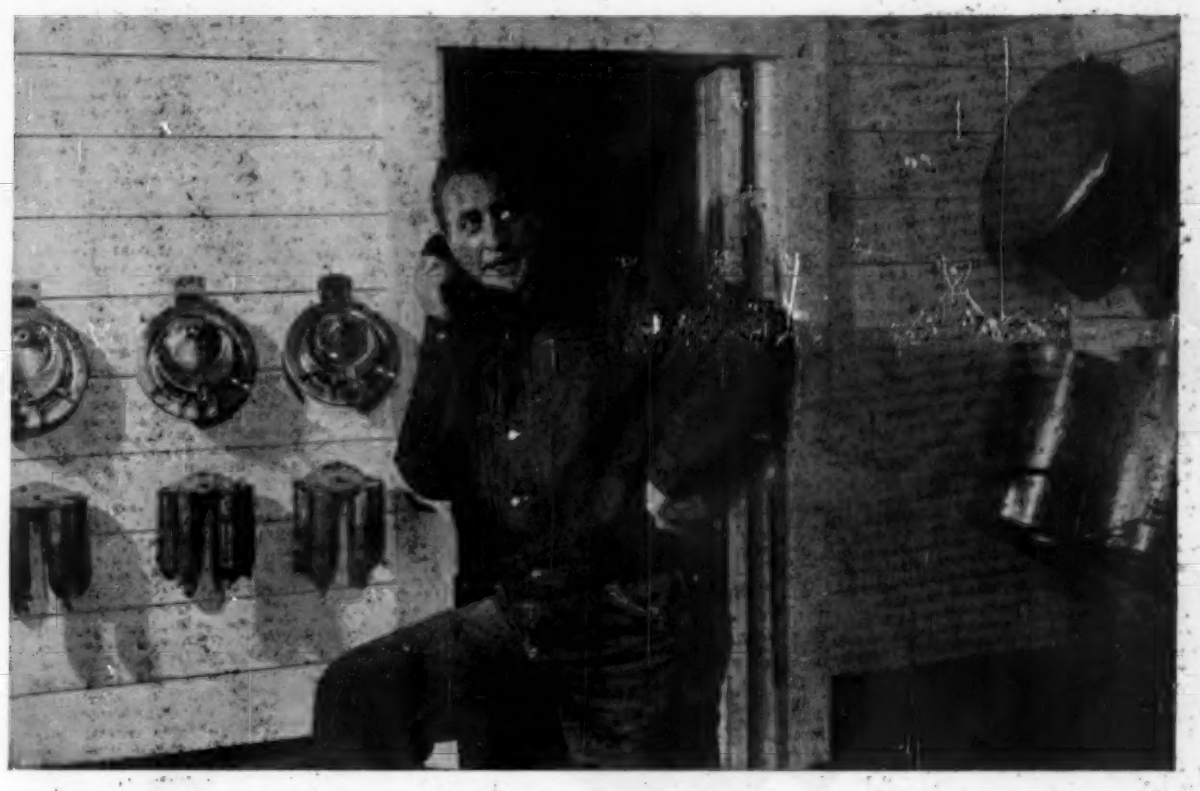

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Washington Co.—B. V. Quimby, Chatom
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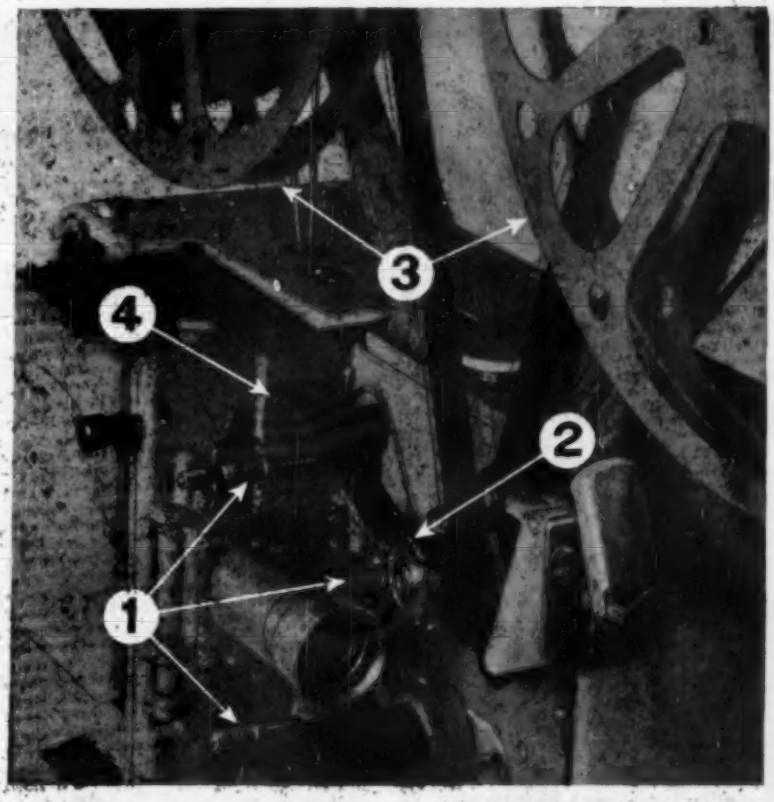

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1 Look for safety film trips. Film costs money, and nothing offers greater protection against film damage than Victor's Safety Film Trips. Three trips, one at each loop, stop the projector instantly and automatically in film emergencies. Kalart/Victor is the *only* projector to feature Safety Film Trips.

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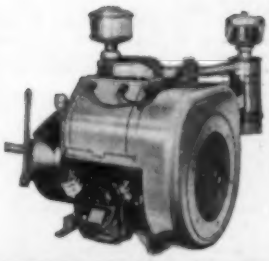

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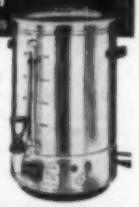

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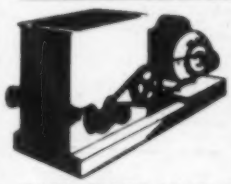
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Ellis—Kenneth B. Albright, Courthouse, Hays
Ellsworth—Kermit V. Engle, Courthouse, Ellsworth
Finney—Kenneth W. Fromm; asst., David R. Davies, Courthouse, Garden City
Ford—H. W. Westmeyer, Co. Office Bldg., Dodge City
Franklin—Donald A. Brown; asst., Ross M. Nelson, Courthouse, Ottawa
Geary—N. E. Stroud, P. O. Bldg., Junction City
Gove—Wilbur W. White, Courthouse Annex, Gove
Graham—Gene Owen Ott; asst., Wilbur J. Dunavan, Courthouse, Hill City
Grant—Marshall F. Walker, Jr., Courthouse, Ulysses
Gray—William B. McCully, Jr., Courthouse, Cimarron
Greeley—Larry G. Henry, Courthouse, Tribune
Greenwood—Clarence A. Hollingsworth, Courthouse, Eureka
Hamilton—Richard E. Golladay, Courthouse, Syracuse
Harper—Roger L. Hendershot, Courthouse, Anthony
Harvey—Bill D. Collins, Municipal Bldg., Newton
Haskell—Willis L. Blume, Courthouse, Orange
Hodgeman—Ralph Germann, Courthouse, Jetmore
Jackson—William A. Montgomery, Jr., Courthouse, Holton; Arthur R. Johnson, Courthouse Annex
Jewell—Freeman Biery, Courthouse, Mankato
Johnson—C. T. Hall, Courthouse, Olathe
Kearney—Merlin E. Line, Courthouse, Lakin
Kingman—Dale R. Schilling, P. O. Box 192, Kingman
Kiowa—Monte C. Clark, Courthouse, Greensburg
Labette—Jerry C. Hope, Altamont
Lane—John W. Robinson, Courthouse, Dighton
Leavenworth—John F. Smith, Courthouse, Leavenworth
Lincoln—Hal Dean Byarlay, Courthouse, Lincoln
Linn—Don D. Pretzer, Box 95, Mound City
Logan—Richard D. Stroade, Farmers State Bank Bldg., Oakley
Lyon—R. Stanley Parsons, Courthouse, Emporia
McPherson—Beverly D. Stagg, P. O. Bldg., McPherson
Marion—Lester E. Griffith, Courthouse, Marion
Marshall—Edwin Hedstrom, Courthouse, Marysville
Meade—A. Eugene Harris, Courthouse, Meade
Miami—Raymond F. Hackler, Courthouse, Paola
Mitchell—Charles Jack Baird, P. O. Box 612, Beloit
Montgomery—R. F. Nuttleman; asst., Robert W. Bozworth, P. O. Bldg., Independence
Morris—Alvin E. Maley, Courthouse, Council Grove
Morton—Jon Herod, Ag. Bldg., Elkhart
Nemaha—W. H. Barker, P. O. Bldg., Seneca
Neosho—W. Gale Mullen, Courthouse, Erie
Ness—Ben D. McKay, Courthouse, Ness City
Norton—Gerald O. McMaster, Courthouse, Norton
Osage—Joe B. Divine, Courthouse, Lyndon
Osborne—Lowell H. Byarlay, Courthouse, Osborne
Ottawa—N. E. Schlesener, Courthouse, Minneapolis
Pawnee—E. Clifford Manry, Courthouse, Larned
Phillips—Donald L. Faidley, Courthouse, Phillipsburg
Pottawatomie—Eugene H. Harter, Westmoreland
Pratt—Wilbur S. Kraisinger, P. O. Box 821, Pratt
Rawlins—Donal D. McWilliams, 325 State St., Atwood
Reno—Otis R. Griggs; asst., Rae C. Luginsland, 20 N. Adams, Hutchinson
Republic—Patrick E. Smythe, Courthouse, Belleville
Rice—Leslie P. Frazier, 701 E. Main St., Lyons
Riley—B. W. Newsome, P. O. Bldg., Manhattan
Rooks—Warren G. Harding; asst., Earl L. VanMeter, Courthouse, Stockton
Rush—Robert Hamilton, Courthouse, LaCrosse
Russell—E. Kirk Baker, 3rd & Main, Russell
Saline—Loren E. Harris, P. O. Bldg., Salina
Scott—Darrel D. Dicken, Courthouse, Scott City
Sedgwick—D. W. Ingle; assoc., Gerald Lee Huntington, 414 W. Second, Wichita 5
Seward—Billie D. Chadd, Courthouse, Liberal
Shawnee—Herbert W. Bulk, Courthouse, Topeka
Sheridan—Richard L. Jepsen, Courthouse, Hoxie
Sherman—Loren E. Whipps, Box 330, Goodland
Smith—Leonard C. Parker, Courthouse, Smith Center
Stanton—Donald Spitze, Courthouse, Johnson
Stafford—Eugene Ross, Courthouse, St. John
Stevens—Harold E. Broadie, Courthouse, Hugoton
Sumner—Raymond G. Frye, Courthouse, Wellington
Thomas—Richard S. Kubik, Courthouse, Colby
Trego—G. Keith Fish, Courthouse, Wakeeney
Wabaunsee—Darold Dean Marlow, Courthouse, Alma
Wallace—Ray Mann, Courthouse, Sharon Springs
Washington—Jewell O. Gebhart, Courthouse, Washington
Wichita—Jack H. Wilson, Courthouse, Leoti
Wilson—Dan L. Pherigo, Box 390, Fredonia
Woodson—Raymond E. Wary, Jr., Courthouse, Yates Center
Wyandotte—Harry Duckers, Jr., Courthouse, Kansas City

COUNTY 4-H CLUB AGENTS

Barton—William V. VanSkike, Box 749, Courthouse, Great Bend
Brown—Don V. Stout, Courthouse, Hiawatha
Butler—Albert Harold Gottsch, Courthouse, El Dorado
Cowley—Weldon E. Russell, 107 W. 11th, Winfield
Crawford—Donald G. Loyd, Courthouse, Girard
Dickinson—David Kaiser, Courthouse, Abilene
Douglas—William C. Hundley, Jr., P. O. Box 14, Lawrence
Ellsworth—Chas. D. Miksch, Courthouse, Ellsworth
Greenwood—William D. Greenwood, Courthouse, Eureka
Harvey—John H. Barnes, Municipal Bldg., Newton
Johnson—Kenneth E. McGinness (Court House), Olathe
Kingman—Royal C. Hendershot, Box 192, Kingman
Labette—J. Willis Jordan, Altamont
Leavenworth—Ralph B. Rector, Courthouse, Leavenworth
Lyon—Harold E. Eversmeyer, Courthouse, Emporia
Marion—Paul H. Mayginnes, Courthouse, Marion
Marshall—Paul N. Hines, Courthouse, Marysville
Miami—Roger Hecht, Courthouse, Paola
Montgomery—Dale Hensley, P. O. Bldg., Independence
Pratt—Clifford L. Meireis, P. O. Box 821, Pratt
Reno—James R. Childers, 20 N. Adams, Hutchinson
Rice—Donald L. Esslinger, 701 E. Main St., Lyons
Riley—Jimmie W. Smith, P. O. Bldg., Manhattan
Russell—Sylvester O. Nyhart, 3rd & Main, Russell
Saline—W. D. Whitmire, P. O. Bldg., Salina
Sedgwick—Thurman S. Wren (leave), 414 W. Second, Wichita 5
Shawnee—Merle L. Eyestone (leave), Courthouse, Topeka
Sumner—William G. Willis, Courthouse, Wellington
Washington—Leland W. Elliot, Washington
Wyandotte—W. H. Borst, Courthouse, Kansas City

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Belleville—Carl Beyer, Belleville
Beloit—Earl Baugher, Beloit
Berryton—Thos. Morris, Berryton
Beverly—Daniel Schmidt, Beverly
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Blue Mound—Donald L. Gill, Blue Mound
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Clifton—John Morgan, Clifton
Coffeyville—Eldred Harris, Coffeyville
Colby—Ira Mann, Jr., Colby
Columbus—Robert M. Lay, Melvin Briley, Columbus

KENTUCKY

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Cottonwood Falls—Richard Patton, Cottonwood Falls
Council Grove—Joel Morrison, Council Grove
Courtland—Bruce Cleveland, Courtland
Delphos—John Nace, Delphos
Dodge City—Allen Starosta, Dodge City
Downs—Allen Watts
Effingham—Roy Eck, Effingham
Elk City—James J. Campbell, Elk City
Ellinwood—John J. Cragun, Ellinwood
Ellis—Robert Schneider, Ellis
Ellsworth—Lester J. Crandall, Ellsworth
Emporia—Eugene Walker & Harold Norris, Emporia
Ensign—David Williams, Ensign
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Eskridge—Terry Fanning, Eskridge
Eureka—Harry L. Coffel, Eureka
Fairview—Frederick Hawk, Fairview
Florence—Earl Wineinger, Florence
Ford—Gary Jones, Ford
Fort Scott—Milton Kohrs, Ft. Scott
Fowler—Dalton Malton, Fowler
Frankfort—Ralph Kenworthy, Frankfort
Fredonia—Stanley Lewis, Fredonia
Garden City—Kenneth L. Henderson, Garden City
Garnett—Clarence Anderson, Garnett
Girard—Jack McClaskey, Girard
Goessel—Nelson Galle, Goessel
Goodland—Maurice Little, Goodland
Great Bend—Fred Schultis, Great Bend
Greenleaf—Olin Sandlin, Greenleaf
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Hanover—Alvin Lampe, Hanover
Harper—Daryl Haegert, Harper
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Haven—Glen Schulthess, Haven
Hays—Edward Schukman, Hays
Herington—Darrell Mounkes, Herington
Highland—Lowell Burchett, Highland
Highland Park—Don Brock, Topeka
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Kingman—Virgil Lake, Kingman
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Lakin—Dean Hoppas, Lakin
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Leoti—Robt. E. Granzow, Leoti
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Linn—Donald Flenthrope, Linn
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Marion—Ron Sweat, Marion
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McDonald—Gaylord Stanton, McDonald
McPherson—Richard Ramsdale, McPherson
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Moundridge—Paul Otmanns
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Natoma—R. B. Feldkamp, Natoma
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Ness City—Warren E. Stone, Ness City
Newton—R. M. Karns, Newton
Norcatur—George Fisher, Norcatur
North Topeka—Marvin Smith, Topeka
Norton Co. Comm.—Philip Finley, Norton
Oakley—Howard Wallace, Oakley
Oberlin—Donald Guinn, Oberlin
Onaga—Leonard Ottman, Onaga
Osage City—Kenneth Kern, Osage City
Osborne—Jim Macy, Osborne
Ottawa—S. S. Bergsma, Ottawa
Oxford—Harold Knewtson, Oxford
Palco—Benjamin Schweitzer, Palco
Paola—Benjamin Attebery & Damon Slyter (2nd teacher at Paola) Paola
Paradise—Norman Hildwein, Paradise
Parker—Chester J. Ward, Parker
Partridge—Norman Terrell, Partridge
Peabody—John Denyer, Peabody
Phillipsburg—Frank Freeman, Phillipsburg
Plains—W. D. Campbell, Plains
Plainville—Marvin Hackmeister, Plainville
Powhattan—Forrest Halliday, Powhattan
Pratt—Wm. Jorns, Pratt
Preston—John Akers, Preston
Pretty Prairie—Powell Heide, Pretty Prairie
Quinter—W. O. Breeden, Quinter
Randolph—Robert Stephens, Randolph
Riley—Leslie Olsen
Riverton—Gilbert Arnold, Riverton
Rossville—Ira Williams, Rossville
Russell—Sam Stenzel, Russell
Sabetha—Oliver Bennett, Sabetha
Salina—William D. Smith, Salina
Scandia—Loren Isaacson, Scandia
Severy—Jerry Hall, Severy
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Smith Center—Chas. Mantz, Smith Center
Solomon—Clyde Venneberg, Solomon
Spearville—Oran Nunemaker, Spearville
Stafford—Jerry M. Gee, Stafford
St. Francis—Donald E. Hall, St. Francis
St. Paul—James L. Wade, St. Paul
Stockton—Floyd A. Blauer, Stockton
Syracuse—Virgil Hecker, Syracuse
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Tribune—James T. Grider, Tribune
Troy—James Hundley, Troy
Udall—Bob Farrer, Udall
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Wakefield—Bob Doyle, Wakefield
Wamego—Chris Langvardt, Wamego
Washington—Otis Dewey, Washington
Waterville—Willis Ringen, Waterville
Wellsville—George Sherman, Wellsville
Wetmore—Harry Longberg, Wetmore
Williamsburg—Earl Anderson, Williamsburg
Wilson—Kent Massey, Wilson
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Yates Center—Floyd Saulsberry, Yates Center

KENTUCKY

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Associate Director—G. W. Schneider
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Coordinator Special Ext. Programs—Charlie Dixon
Vice President, Business Administration—F. D. Peterson
Asst. Business Manager—G. J. Ruschell
Personnel and Training Officer—Mike Duff, Asst. Leader in Ext. Programs

SPECIALISTS

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Agri. Engineering—Blaine Parker, Hd. of Dept.; Marvin Hall, George Jenkins, J. B. Kelley, George Turner, Kermit Mills
Agronomy—Warren Thompson, George Everett, B. W. Fortenbery, 929 S. Limestone, Lexington, Ky.; Russell Hunt, Lyle B. Leonard, Ira E. Massie, Harold Miller, S. H. Phillips, B. N. Driskell, C. E. Wyatt, Mayfield, Kentucky; G. T. Webster, Head of Department
Animal Husbandry—Ray C. Hopper, Richard C. Miller, George D. Pendergrass, Grady Sellards, Nelson Gay, W. P. Garrigus, Head of Animal Husbandry Section
4-H Club—J. Conrad Feltner, E. E. Fish, M. S. Garside, G. J. McKenney, Fred Brockman, James Pheane Ross, Emma Bybee, Geo. D. Corder, State Leader; Helen Wesley, Boyd Wheeler
Dairying—Garland M. Bastin, Wallace L. King, E. C. Scheidenhelm, Edward C. Troutman, W. S. LaGrange, D. M. Seath, Head of Section
County Agent Leaders—S. C. Bohanan, Chairman, Agricultural Programs; I. C. Graddy, Royal K. Kelley, E. J. Kilpatrick, R. H. Lickert, H. F. Link, Harry W. Whittenburg.
Home Demonstration—Alda Henning, Acting Chairman
Horticulture—George A. Marlowe, W. D. Armstrong, Princeton, Ky.; W. W. Magill, James A. Newman, James A. Stacey
Poultry Department—Allen C. Davis, C. E. Harris, J. E. Humphrey, Ronnie Graves, Area Agt., Cattlesburg; W. M. Insko, In Charge of Poultry Section
Public Information—Frank B. Borries, Robert H. Ford, Joseph Duncan, Louise Boswell, Blanche Bushong, Joe B. Williams, J. Allan Smith, Wm. B. Ball, Robert May, Head of Department
Rural Sociology—Ralph J. Ramsey, A. Lee Coleman, Head of Department

COUNTY AGRICULTURAL AGENTS

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Anderson—E. L. Ruggles, Lawrenceburg
Ballard—James H. Edwards, Wickliffe
Barren—Jess O. Horning; asst., Glen Loveless; assoc., Faye Atherton, Glasgow; A. E. Kilbourne, Area Agt., Barren Co.
Bath—Joe R. Thompson; assoc., Cochran, Owingsville
Bell—Geo. A. Armstrong, Elwood Combs, Pineville
Boone—Joseph L. Claxon, Jr.; asst., Marvin Davidson Burlington
Bourbon—P. R. Watlington; assoc., Bernie Milam, Paris
Boyd Co.—Kenneth Franks, Area Agent; W. I. Marshall, Area Agent in Poultry, Catlettesburg
Boyle—Paul T. Hamm; asst., Thomas M. Williams, Jr., Danville
Bracken—Harold D. Collins; asst., Milton Boyce, Brooksville
Breathitt—J. W. Poe, Jr., Area Agent, Jackson
Breckinridge—Kenneth Brabant; asst., John VanCleve, Hardinsburg
Bullitt—J. B. Hockensmith, Shepherdsville
Butler—Samuel B. Kent; Ben F. Brown, Agt. at Large; asst., Jackson Williams, Butler
Caldwell—Levi Oliver, Area Agent, John Kavanaugh; asst., Cecil Carter, Agt. at Large, Princeton
Calloway—Samuel V. Foy; asst., A. G. Sims; assoc., C. O. Bondurant, AA, Mktg., Murray
Campbell—Samuel A. Porter; assoc., Robert M. Crouch, Alexandria
Carlisle—Faye Atherton, Billy T. Ridgway, Bardwell
Carroll—Alan P. Utz, Carrollton
Carter—Charlie Mason; asst., Lucien White, Grayson
Casey—George D. Noble; assoc., Edward May, Liberty
Christian—Jones R. Davie; assoc., E. H. Perry, Jr., Hopkinsville
Clark—Charles D. Shouse; assoc., Robt. Huffman, Winchester
Clay—Seldon V. Hail, Manchester
Clinton—Durward E. Salisbury, Albany
Crittenden—J. T. Hatfield, Marion
Cumberland—Ellis Bishop, Co. Agt., Burkesville
Daviess—John E. McClure, Courthouse; assoc., E. R. Russell, Owensboro
Edmonson—Jas. T. Williams, Brownsville
Elliott—John Rickett, Logan T. Louderback; assoc., Leon Ball, Sandy Hook
Estill—Clarence P. Bayes; assoc., Paul Claiborne, Irvine
Fayette—Chas. Gulley; asst., William Wood, 1409 Forbes Rd., Lexington
Fleming—P. T. McNeill, Jr.; Glen McCormack, Agt.; assts., Bobby Peek, John K. Wills, Flemingsburg
Floyd—R. M. Jones; asst. in trng., assoc., Jack Friar
Franklin—Robert M. Heath; Paul Gray, Agt.; asst., Geo. McKinney; 421 W. Main Street; Roy D. Gibson (In Trng.), Frankfort
Fulton—John B. Watts, Hickman
Gallatin—Estil Noffsinger, Warsaw
Garrard Co.—Raymond O. Johnson, Lancaster
Grant—Robert C. Hume, Williamstown
Graves—Wilson R. Hoover; assoc., Graham Wilkins, C. E. Wyatt, AA Agron., Mayfield
Grayson—Wm. M. Britt; J. B. Williams, Area Ext. Agt.; asst., E. R. Netherland, Leitchfield
Green—John Ewing, Jr.; assoc., James P. Prewitt, Greensburg
Greenup—Amos Tackett; asst., Harold C. Rice, Greenup
Hancock—Charles L. Goff, Hawesville
Hardin—Otto H. Losch; assoc., Jerome Lawson, Elizabethtown
Harlan—Vernon Banks; assoc., John Bach, Harlan
Harrison—Robert Wigginton; asst., Claude Hixson, Cynthiana
Hart—Free W. Wallace, Munfordville
Henderson—Stuart Brabant; assoc., William K. Hendrick, Henderson
Henry—Ova D. Perkinston; asst., Wayne J. Sininger, New Castle
Hickman—John H. Vaughan, J. Robertson, AA Swine, Clinton
Hopkins—James B. Thornton; asst., Wm. A. Conder, Madisonville
Jackson—Woodrow Deaton, Calvin Risner, McKee
Jefferson—H. Corley Brown; assoc., John Heller; Harold Love, Area Agt.; asst., Jas R. Perkins, 437 Federal Bldg., Louisville
Laurel—Rex Wesley, Co. Agt.; assoc., O. Ray Morgan, London
Lawrence—James F. Moore, Louisa
Lee—Hollis Henson, Beattyville
Leslie—Rufus Fugate; asst., Carl Farler, Hyden
Letcher—Robert H. Fike; assoc. Paul D. Morris, Asst. in Trng., Whitesburg
Lewis—H. M. Gooding; assts., Edward Strong, Frederick Watson, Vanceburg
Jessamine—Clarence W. Mitchell, Nicholasville
Johnson—C. O. Christian; Clyde Hopkins, Asst. in Trng., Paintsville
Kenton—Carl A. Wicklund, Independence; Thomas Riley, Agt.; Robert Maddox, Asst. in Trng.; Frank Brown, Rm. 6, Federal Bldg., Covington
Knott—A. F. Stamper; assoc., J. W. Blue, Hindman
Knox—Gray H. Williams, Wilbert H. Earley, Barbourville
Larue—Stanley Hager; asst., Jack H. Snyder, Hodgenville
Lincoln—R. F. Cornelius; assoc., Wm. Brinkley, Stanford
Livingston—Thos. L. Pirtle, Smithland
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Lyon—Warren H. Gardner, Eddyville
Madison—J. Lester Miller; assoc., Geo. R. Herbst; asst., John Woeste; Asst. in Trng., Jas. H. Yates, Richmond
Magoffin—Prichard King; asst., John Wilson, Salyersville
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Marshall—J. Homer Miller, Benton
Martin—Hubert E. Ball, James Kendrick, Inez
Mason—Z. L. Newsome; W. B. Collins; assocs., Harold D. Collins, F. D. Watson, Maysville
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McLean—Leroy W. Northington, Calhoun
Meade—Floyd F. Thompson, Jr., Brandenburg

Menifee—Wallace Coffey, John K. Wills, Frenchburg
Mercer—William B. Howell; assoc., Marcus R. Barnett, Harrodsburg
Metcalfe—Harlon I. Crenshaw; asst., Thomas Stevens, Jr., Edmonton
Monroe—Justus L. Ellis; asst., Clifton L. Taylor, Tompkinsville
Montgomery—Floyd McDaniel; asst., Finnell Fields, Mt. Sterling
Morgan—Carl W. Sinclair, Douglas Howard, West Liberty
Muhlenberg—Wesley Rowland; assoc., Paul W. Mills, Greenville
Nelson—Burles A. Rardin; Geo. Mountjoy, Asst. in Trng., Bardstown
Nicholas—William T. Straw; asst., Luther Whitaker, Carlisle
Ohio—Raymond D. Ridley, Hartford
Oldham—Chester L. Brown; asst., Clyde Allen, LaGrange
Owen—Paul H. Gray, George Herbst, Owenton
Owsley County—Wm. M. Hopper
Pendleton—Robert W. White, Falmouth
Perry—Paul Keen; assoc., John Caudill, Hazard
Pike—Manuel B. Arnett; assts., David V. Gillespie, Robt. H. Wolfe, Pikeville
Powell—Eugene Howard, A. A. Williams, Stanton
Pulaski—Hugh Hurst; Area Agent, Jas. K. Stacey; Allan C. Davis; assocs., Hayden Watkins, Luther Small, Somerset
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Rockcastle—Hester Lee Durham, Berea
Rowan—Adrian M. Razor; assoc., Robt. Eplee, Morehead
Russell—Raymond A. Brockman, Jamestown
Scott—Asa Irvin Overall; asst., Richard LeMaster, Georgetown
Shelby—John W. Holland; asst., Maurice Cole
Simpson—Woodrow Coots; assoc., Wm. C. Harlin, Franklin
Spencer—Nevin L. Goebel, Taylorsville
Taylor—Charles V. Bryan; asst., H. Bradley Brown, Campbellville
Todd—Jas. S. Howard, Elkton
Trigg—Keith S. Venable; asst., Gordon Henshaw, Cadiz
Trimble—Millard R. Maxey, Bedford
Union—Jewell A. Wheeler; S. L. Detring, Asst. in Trng., Morganfield
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Washington—Troll Young; asst., Thos. Curtsinger, Springfield
Wayne—assoc., John Rickett; asst., Harold Vaught, Monticello
Webster—Wm. T. Hooks, Dixon
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Questions I'm asked about

Dr. G. C. Wallis, recognized authority in the field of Vitamin D nutrition for livestock

Q: Will two to five pounds of good sun-cured hay provide enough vitamin D for my dairy cows?

A: No. Sun-cured hay varies widely and unpredictably in vitamin D content—80 units to 1,250 units per pound have been reported for sun-cured alfalfa hay. Two to five pounds of lower potency hay would provide about 200 to 500 units per cow per day which is insignificant. Even though the hay happened to be high in vitamin D, there would be only a modest contribution made toward the suggested optimum intake of 6,000 to 8,000 units per pound of dairy ration.

Q: How can I check to make sure my dairy cows are receiving enough vitamin D?

A: Good safeguards can be taken but an absolute check is probably not possible. Optimum vitamin D levels for top performance and longevity have not been clearly established but work is in progress. Mild deficiencies are often difficult or impossible to detect but they can be costly. Available information suggests the use of 6,000 to 8,000 units of vitamin D per pound of complete grain ration. Confidence in your feed manufacturer and the good performance of his well-formulated rations would be important for users of commercial feeds.

Q: Is there any danger of my feeds having too much vitamin D?

A: Our recommendations for the vitamin D fortification of feeds are well within the generally recognized safe limits of vitamin D intake for the different species of animals. With careful methods and efficient modern mixing equipment feed manufacturers are able to achieve good distribution of micro-ingredients. The chance of overdosage is remote.

Q: How much vitamin D do baby pigs and growing-finishing pigs need?

A: Early weaning, fast growth, confinement raising, multiple farrowing and other changes have greatly increased nutritional stress factors since the vitamin D requirements of pigs have been carefully studied. Based largely on amounts that have given good results in experimental and practical swine raising programs, a number of Experiment Stations are suggesting about 500 units of vitamin D per pound of milk replacer and starter with somewhat smaller amounts as pigs approach market weight.

Q: Do sheep get enough vitamin D from natural sources?

A: Not always. For instance, in recent English studies lambs from ewes given supplemental vitamin D averaged 6 pounds heavier at weaning in one flock and 9 pounds heavier in another than lambs from ewes given no vitamin D. Fleeces from experimental animals were more than ¼ pound heavier, graded higher, and brought a premium price.

G. C. Wallis

For more complete answers to any of these questions write to Dr. G. C. Wallis, Director of Nutrition, Agricultural Department, Standard Brands Incorporated, 625 Madison Avenue, New York 22, N. Y.

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Teacher Training—O. L. Snowden, Head; J. F. Scoggins, G. M. Walker, O. V. Clark, (Subject Matter), L. P. Jacks, Teacher Trainer

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Agricola Con.—R. T. Ishee, Agricola
Alcorn Co.—M. D. Graham, Thomas Murphy, Kossuth
Amory—Herman Riley, Amory
Anding Con.—E. A. Cain, Bentonia
Neshoba County—H. Shepherd, R-6, Philadelphia
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Baldwyn—C. Q. Hoover, Baldwyn
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Biggersville Con.—Leo James, R-4, Corinth
Binford Con.—B. M. Trapp, Duck Hill
Bogue Chitto Con.—Troy Smith, B-127, Bogue Chitto
Booneville Con.—Merril Cartwright, Rt. 2, Booneville
Brandon Con.—J. C. Herring, Brandon
Brookaville Con.—L. H. Nixon, Brooksville
Broom Con.—J. A. Hitt, R-A, Perkinston
Bruce Con.—W. D. Guest, B-367, Bruce
Buckatunna Con.—J. H. Cooley, Buckatunna
Buena Vista Con.—R. A. Stacy, R-2, Ripley
Bunker Hill Con.—H. L. Price, Rt. 3, Columbia
Burnsville Con.—Clovis Crane, Burnsville
Byhalia Con.—Aaron Burney, Byhalia
Caledonia Con.—T. E. Ellis, Caledonia
Calhoun City Con.—U. E. James, Calhoun City
Canton—W. R. Knight, Canton
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Coldwater Con.—James E. Byars, R-5, Philadelphia
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Collinsville Con.—J. R. Bounds, Collinsville
Conehatta Con.—D. L. Love, Conehatta
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(19 1 Directory is ontinued on page 57)

Newest in features—with 40 million hours' experience!

See all the ways that years-ahead . . . farmer-proved IH design makes new Farmall® and International® tractors your best power buys!

No other tractors are as "new" in features as today's Farmalls and Internationals. And no other "new" tractors come close to matching the forty million hours of proved performance of today's IH tractors.

Millions of hours of field work have proved that *exclusive* IH Multi-Range power really saves money. Additional millions of work hours have further proved that "farm-easy" features like Torque Amplifier, Hydra-Touch hydraulic control . . . Fast-Hitch and many others are sensible savers of time and labor—not untried ideas.

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Exclusive Multi-Range Engines deliver the big power you need to master tough jobs with new ease and economy. Only IH Multi-Range tractors give both top big power and small tractor economy on light loads.

"Loaf" on Light Jobs. With Multi-Range power, shift up to a high gear, reduce engine speed for the right pace to match the job. Big-power engines "loaf" along, give you small tractor economy.

Wade through tough spots non-stop with fully proved Torque Amplifier. There's no stopping, no over-speeding the engine. An easy pull on the TA lever triggers a pull-power boost of up to 45% *on-the-go.*

Save on the IH Early Trader's Bonus Plan. Get cash for dealing now on a proved Farmall or International tractor. IH pays interest at the rate of 6% on your trade-in and/or down payment from the time the deal is closed. See your International Harvester dealer, now!

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Why

SERPASIL® means new profits for poultrymen

Medicated feeds containing SERPASIL provide the only available agent that acts directly on the sympathetic nervous system and shields birds against the *causes of stress*—heat, cold, crowding, debeaking, vaccination, caging, spraying.

In chicken feeds SERPASIL enables layers to adapt to stressful conditions *before* damage is done. The birds remain calmer and healthier . . . maintain high levels of feeding efficiency and egg production during those stress periods which cause heavy losses of eggs and birds.

In turkey feeds SERPASIL controls aortic rupture within 2 days . . . prevents repeated outbreaks of this costly disease . . . enables turkey raisers to eliminate losses that run as high as 20 per cent.

SERPASIL means new and substantial savings for your customers, new and profitable feed business for you. It has been tested in repeated field trials throughout the country. Feeds containing SERPASIL are NOW available from leading feed manufacturers. For complete information write:

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CIBA

SERPASIL® (reserpine CIBA) 2/2853FK

Here's the most sensational craft news in a long, long time. Now aluminum trays and coasters can be made in gorgeous colors with Craft Metals Corporation's new aluminum COLORCIRCLES.

With just a few simple directions even the most inexperienced person finds it surprisingly easy to attain charming and delightful results. The only basic materials needed are:

CMC'S *beautiful aluminum* **COLORCIRCLES**
CMC'S *amazing non-acid Safe-T Etch and*
CMC'S *Special Hi-Temp Craft Black.*

CMC COLORCIRCLES are the exclusive creation of Craft Metals Corporation. Safe-T-Etch is the safer, faster, non-acid etching compound which removes all the objectionable features involved in acid etching. Hi-Temp Craft Black is a quick-drying, asphaltum paint that creates cleaner, sharper etched lines in designs.

CMC COLORCIRCLES come in orchid, sky blue, chartreuse, copper and gold in sizes ranging from 4" to 20" diameters. Their colors will not flake or rub off because a special process makes them a permanent part of the aluminum surface.

Besides making attractive decorative pieces for the home, CMC COLORCIRCLES make wonderful gifts or can be turned into a profitable source of extra income.

Get your groups started in this thrilling and satisfying craft. Send for your FREE booklet telling how to work new wonders with CMC'S ALUMINUM COLORCIRCLES.

CMC is also headquarters for brite mirror-finish aluminum circles and rectangles — copper circles — bracelet blanks—aluminum and copper embossing foil-copper tooling metal and aluminum craft accessories.

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Donald Kabler presents gavel to be used in all future conventions to NVATA's first president, Lionel Cross, during 12th annual convention.

"Wanted: An NVATA Executive Secretary"

Applications for the office of executive secretary will be received until February 1. Salary: $7500 per year. Send applications to President Floyd Johnson, York, South Carolina. 12th Annual NVATA convention ups dues to $3. About 250 teachers from 43 states attend.

THE twelfth annual convention of the National Vocational Agricultural Teachers Association was held at The Biltmore Hotel, Los Angeles, California, November 30–December 9.

The NVATA, an organization of more than 10,000 vocational agriculture teachers, supervisors and teacher trainers, is working together for the common goal of advancing the cause of vocational agriculture and the teaching profession in general. About 250 vocational agriculture teachers representing 43 states were in attendance.

The convention was held in conjunction with the annual convention of the American Vocational Association.

FLOYD JOHNSON NEW PRESIDENT

Floyd Johnson, of York, South Carolina, was elected president to succeed Julian Carter of Wellsville, New York. Robert Howey, Sycamore, Illinois, was re-elected treasurer. V. D. Rice of Williston, North Dakota was elected vice president of Region III succeeding James Hamilton, and E. W. Crowley of Crowder, Mississippi was elected vice president of Region V succeeding Floyd Johnson.

James Wall, Waverly, Nebraska, was appointed executive secretary until July 1, 1961.

The executive committee met November 30th and December 1st and 2nd. Members of the executive committee are: Julian M. Carter, president; Luther Hardin, Searcy, Ark., past president; Robert Howey, Sycamore, Ill., treasurer; James Wall, Waverly, Nebraska, executive secretary; and vice presidents—Byron Forsyth, St. David, Ariz.; Mel Adams, Greeley, Colo.; James Hamilton, Audubon, Iowa; W. S. Weaver, Delphi, Ind.; Floyd Johnson, York, S. Car.; and Wenroy Smith, Saltsburg, Penna.

The first general session was held on December 3rd and the final general session was held on December 8th.

Each of the six regions making up the NVATA held two meetings under the direction of the regional

PASTURE

cuts dairy feeding costs by 2/3

New Jersey experiments show that pasture for dairy cattle cuts costs to less than a third those of straight grain and roughage feeding. Lower feed cost is just one reason why many farmers are looking to pasture for extra profits. Other examples of pasture benefits:

Saving in labor—Each man-hour spent in pasture production returned $23 in North Carolina experiments, compared with less than $4 for corn and less than $6 for wheat.

Water conservation—Missouri tests show that four times as much water was lost from sloping cornfields as from alfalfa on the same plots.

Reduction in equipment expense—Pasturing livestock eliminates the need for much expensive machinery and equipment.

Erosion control—Missouri researchers report 400 times the soil loss from sloping cornfields as when the same land was planted to alfalfa.

Wide management choice—Pasture can also be cut for hay, grass silage or seed if needs dictate a change.

Many research reports from across the nation cite the advantages of renovated permanent pastures or improved pastures in a crop rotation scheme. Pasture lands often produce more total digestible nutrients than the same land in grain—and at far less cost.

We'd like to send you a new, free book, *Pasture—How to Reduce Feed Costs*. This book reports many research studies which show how livestock feeding on pasture gives extra profits. Further than that, the book tells how to renovate pasture. It describes methods for lengthening the pasture season, grazing techniques and recommended forage varieties for every section of the country. It's chock full of information which every farmer or potential farmer will value. You can use it for speeches, group topics, discussions or just reference. Why not send for your free copy today?

Please send me the new, free book, *Pasture—How to Reduce Feed Costs.*

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RED BRAND® FENCE

costs less because it lasts longer

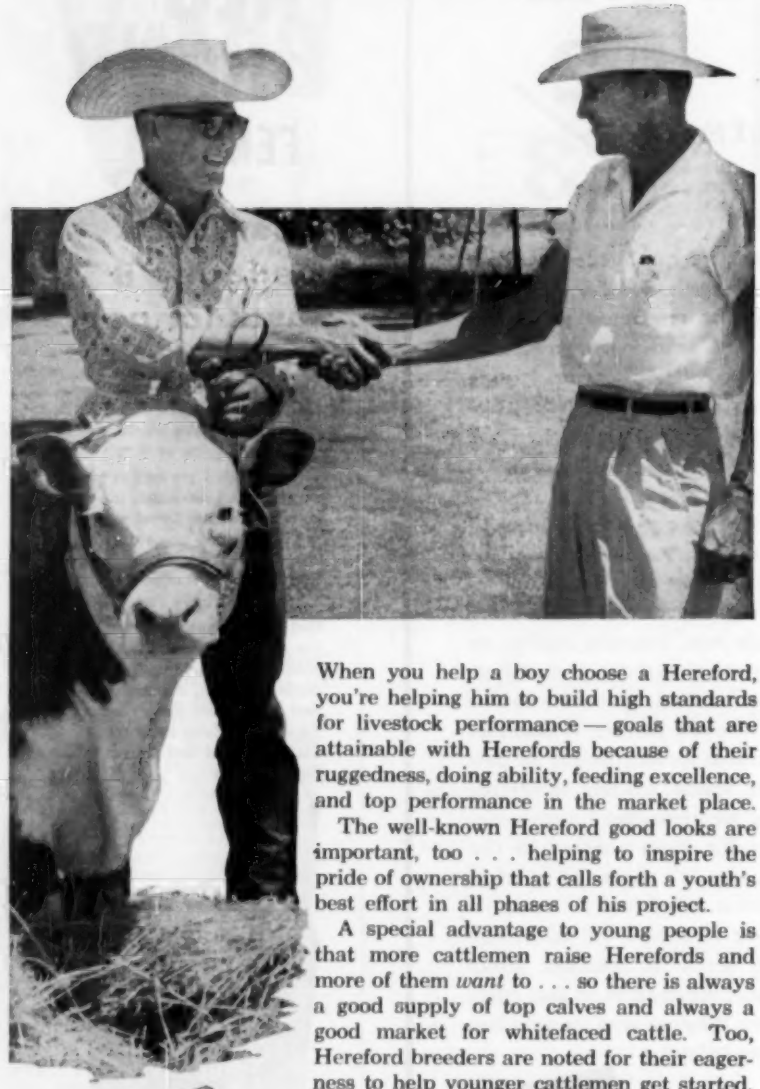
You pay no more for the Galvannealed® protection in Red Brand Fence; you actually save in its years of extra service.

Galvannealed protection means zinc is fused deep into the wire by an exclusive Keystone process so it can't chip or peel away. This superior rust protection keeps Red Brand on the job long after other fences have rusted away.

Red Brand stretches evenly over the roughest ground, stays tight without restretching. For the perfect fencing combination, use Red Brand with longer lasting Red Top® Steel Posts and Galvannealed Red Brand Barbed Wire.

KEYSTONE STEEL & WIRE COMPANY
Peoria 7, Illinois

Your Hand in His Future



When you help a boy choose a Hereford, you're helping him to build high standards for livestock performance — goals that are attainable with Herefords because of their ruggedness, doing ability, feeding excellence, and top performance in the market place.

The well-known Hereford good looks are important, too . . . helping to inspire the pride of ownership that calls forth a youth's best effort in all phases of his project.

A special advantage to young people is that more cattlemen raise Herefords and more of them *want* to . . . so there is always a good supply of top calves and always a good market for whitefaced cattle. Too, Hereford breeders are noted for their eagerness to help younger cattlemen get started.

NEW MEMBERS WELCOME

The American Hereford Association offers a special junior membership, which includes all the privileges of lifetime members (except voting), including recording and transferring cattle at membership rates. Any 4-H or FFA member between 10 and 21, who owns at least one registered Hereford, is eligible.

A new Hereford handbook for youth — "The Future Cattleman" — describes every phase of a beef project — FREE. Send name and address.

AMERICAN HEREFORD ASSOCIATION
DEPT. 6 — HEREFORD DRIVE — KANSAS CITY 5, MO.

HEREFORDS

More Calves . . . More Pounds . . . More Profits

NVATA CONVENTION

(Continued)

NEW PRESIDENT Floyd Johnson, receives congratulations from Julian Carter, retiring NVATA pres.

vice-presidents. Problems common both to the region and the national organization were transacted.

DUES INCREASED TO $3

Highlight of the business session was the adoption of an amendment to the constitution to raise the annual dues from $1.50 to $3.00. Ninety-five per cent of the delegates voted in favor of the amendment.

This increase in dues, which will become effective July 1, 1961, will enable the executive committee to hire a full-time executive secretary. Such a position in the organization will help to relieve some of the load now carried by members of the committee—all full time teachers of vocational agriculture. Also the executive secretary will spend considerable time doing work in public relations.

One of the features of the convention was the annual awards breakfast sponsored by the Allis Chalmers on December 8th. Byron Forsyth, vice-president of Region I, was general chairman and toastmaster for the breakfast.

HONORARY MEMBERSHIP

Honorary life memberships to the NVATA were presented to Carl Schuster, Allis-Chalmers Company; Hamilton Hicks, Jr., d-Con Company; Ralph S. C. Sutliff, Chief, Bureau of Agricultural Education, Albany; Howard McClarren, American Institute of Cooperation; Howard Tuttle, Ford Motor Company (Tractor Division) and Donald Kabler, Floyd Johnson, James Hamilton and Julian Carter, all past officers.

The d-Con Company was presented a distinguished service plaque for their contributions to vocational agriculture. The company sponsors

(Please turn to page 47)

SPONSORED
Research BULLETIN
COUNTY AGENT
VO-AG TEACHER

SOIL INSECT CONTROL ON CORN

By Dr. JOHN EASTWOOD
Velsicol Chemical Corp.

SPONSORED BY VELSICOL CHEMICAL CORPORATION • 330 E. GRAND AVENUE, CHICAGO 11, ILLINOIS

MORE PLANTS —MORE YIELD— WITH SOIL INSECT CONTROL

It will pay you to make soil insect control part of your conservation program this year. Extensive experiment station tests in a leading cornbelt state have shown that soil insect control with Heptachlor insecticide increases the number of living corn plants per acre an average of 4.5%. If corn is planted at the rate of approximately 20,000 per acre, this means almost 1,000 more stalks to pick from every acre. In 23 comparison tests, made by five Midwest Experiment Stations, the use of Heptachlor increased yields an average of 10.75 bushels per acre. There are many reasons why soil insect control will increase yields. Stands are better. Plants grow well and ears fill out. Standability is greatly improved, so that there is much less picking loss.

SAFER, LOWER COST PICKING

Safer, faster, and more economical picking is another advantage to be gained by using a soil insecticide. Picking is safer because there are no tangles of down corn to jam the machine. It's faster because the stalks stand straight, even after heavy fall rains or snows and strong winds. It's more economical because it takes less fuel, labor, and time to get through the fields.

SOIL INSECT CONTROL IS PROFITABLE

Every acre of corn that you plant requires an investment in labor, machinery, fertilizer, seed, taxes, interest on land, and other fixed expenses. Soil insect control increases profits on this investment. Costs vary, but if you will compare growing costs and returns in your area with those shown in the chart below, you'll see that soil insect control pays.

* Cost of Growing Corn without Heptachlor—$62.15 per acre		Profit—$19.62 (77.88 bu./acre yield at $1.05/bu.)
Cost of Growing Corn with Heptachlor—$64.15 per acre	Profit—$28.91 (88.63 bu./acre** yield at $1.05.bu.)	Extra profit $9.29 per acre

* Based on average figures from 9 studies of midwest corn growing costs made by extension services and private companies.
** Yield increase of 10.75 bu./acre from the use of Heptachlor is the average increase obtained in 23 corn rootworm control tests made by 5 midwest experiment stations.
NOTE: Cost of using Heptachlor has been set at $2.00 per acre which is an average cost. Actual costs may range from $1.00 to $2.50 per acre, depending on the insect, the soil, method of application, formulation used, and dosage.

HOW SOIL INSECTS DAMAGE CORN

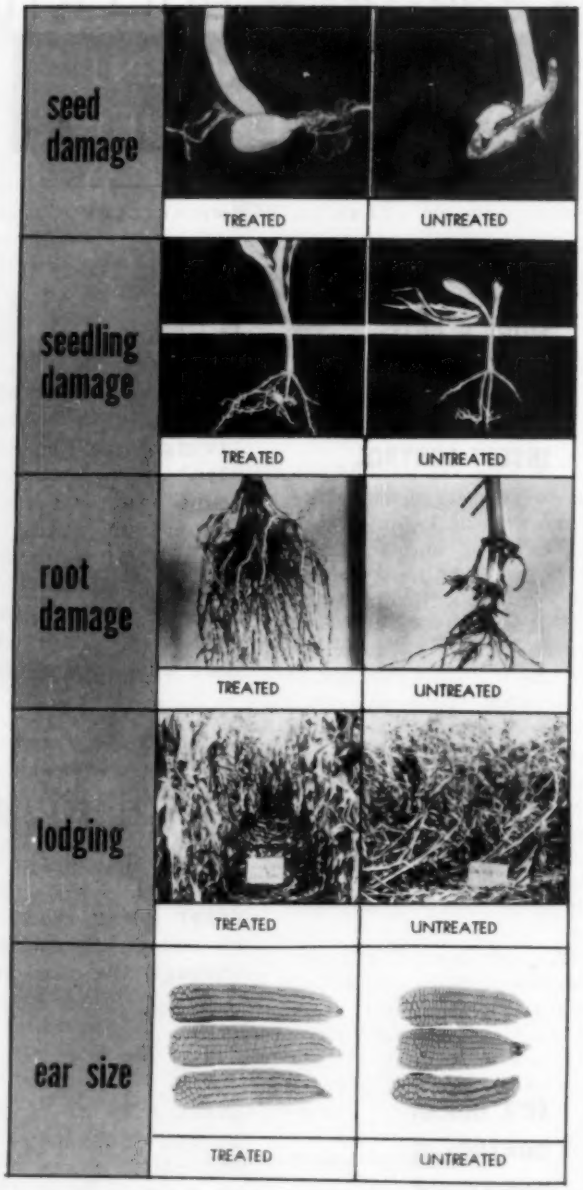
HIDDEN DANGER—Most soil insects are the larvae (young) of beetles or moths. These larvae spend from a few weeks to as long as three years in the soil. Because it is difficult to detect them, the need for control may not be apparent. The pictures on these pages show common signs of soil insect damage.

MORE PROTECTION

In the large scale testing program that led to recommendation of soil insecticides, Heptachlor consistently gave the best results. Heptachlor provided an average of 2.44 bushels per acre more yield than any other recommended chemical. In most instances, this much extra increase in yield will pay the entire cost of application. Heptachlor provides more protection per pound of actual insecticide, and more profit.

HEPTACHLOR—AN ACTIVE INGREDIENT

Heptachlor is a chlorinated hydrocarbon chemical that is the active ingredient in many trade name sprays, granules, and insecticide-fertilizer mixtures. It is manufactured in technical form by Velsicol Chemical Corporation, and sold to chemical companies who incorporate it in ready-to-use trade name soil insecticides.



HOW TO APPLY SOIL INSECTICIDE

SEED TREATMENT AND SOIL TREATMENT

Seed can be treated by adding Heptachlor wettable powder in the planter box. Heptachlor is safe for seed and will not harm germination.

Seed treatment is an effective way to protect germinating seed and seedlings from insects that attack them. It will not provide adequate protection of the root system throughout the growing season. In areas that are infested with corn rootworms, wireworms, white grubs, or other soil insects, soil treatment is vitally important.

SPRAY OR GRANULES

Heptachlor is available in emulsifiable concentrates, granular formulations, and fertilizer mixtures. The emulsifiable concentrates are made in both two pound per gallon and three pound per gallon formulations.

There is also a special three pound per gallon emulsifiable concentrate for use in liquid fertilizer. Granular formulations are made in 10.7% and 20% strength. Heptachlor granules may be mixed with dry fertilizer or mixtures can be purchased ready to use.

BROADCAST OR ROW APPLICATION?

Broadcast treatment gives excellent protection and may be effective for more than one year. Row treatment with Heptachlor is a lower cost way to control many soil insects, and gives effective control for one year. Broadcast treatment is needed for most effective control of cutworms and certain other insects.

FALL AND WINTER APPLICATION

Experimental data and practical experience in corn belt states indicate that fall and winter application of Heptachlor will provide good soil insect control. Many experts recommend a fall plow down of fertilizer. If this practice is followed, a Heptachlor-fertilizer mixture can be used, so that soil insect control and fertilization are combined. No extra labor or equipment is required, and planting is simplified the following spring. In some areas, winter application of Heptachlor is also recommended. It can be applied with air or ground equipment, on snow or frozen ground. No disking is required. Melting snow, rainfall, and alternate freezing and thawing of the surface will work the Heptachlor into the soil. Check with your extension service for recommendations in your state.

NO EXTRA TRIPS!

Soil insecticide application does not require extra trips through the field. It does not take extra fuel or labor, or cause unnecessary soil compaction. Both liquid sprays and granules can be applied through planter attachments, in the row. Equipment is also available for applying sprays and granules through broadcast attachments that can be fitted on a disk. And, insecticide fertilizer mixtures can be applied broadcast or in the row with fertilizer application equipment.

WON'T HARM CROPS OR SOILS—Heptachlor has no adverse effect on soil, soil micro-organisms, seed germination or plant growth, when used as directed. In fact, it is so safe that it is recommended and widely used as a seed treatment for corn.

FITS-IN WITH MINIMUM TILLAGE!

Because soil insecticide application can be combined with other planting operations, it fits-in perfectly with minimum tillage programs. For example, Heptachlor can be used with wheel track planting. It can be broadcast through a disk attachment, so that soil is disked (and treated for insects) in one trip. The soil is then plowed, and corn is planted with wheel track planters. Whatever method is used, Heptachlor application can be adapted to it with a minimum of expense.

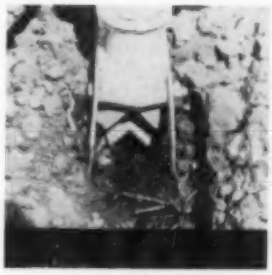
IN THE ROW **BROADCAST**

LIQUID SPRAYS

GRANULES

LIQUID FERTILIZER MIXTURES

DRY FERTILIZER MIXTURES



COMMON SOIL INSECTS THAT DAMAGE CORN

Insect	Approx. Actual Length	Area Infested	Damage	Heptachlor Dosage/Acre (Lbs. Actual Insecticide)
Asiatic Garden Beetle Larvae	½"	Atlantic seaboard from Mass. to S. C.	Feed on roots, decreasing plants' ability to take up nutrients and moisture.	2 lbs.
Corn Field Ant	¼"	East of the Rocky Mountains	"Herd" corn root aphids on to corn roots. Protect aphids and guide them to food source. Derive food from "Honeydew" exuded by aphids.	1 to 1½ lbs.
Corn Rootworm				
Northern	½"	Cornbelt and east to N. Y.	Feed on roots. Plants grow slowly, especially at the time that the tassel appears. Plants are undersized and lodged easily in heavy wind or rain.	1 lb. (broadcast) ½ lb. (in the row)
Southern	½"	East of Rocky Mts.		
Western	¼"	Neb., Kans., Ia., Mo., S. Dak., Colo.		
Corn Root Aphid	1/10"	East of the Rocky Mountains	Placed on roots by cornfield ants. Corn germinates normally and grows 3"–30". Then growth becomes retarded. Leaves may become tinged with yellow or red.	See Corn Field Ant
Cutworms	2"	Entire U. S.	Attack seedlings and growing plants.	1 to 2 lbs.
Grape Colaspis Larvae	1/8"–½"	Entire U. S.	Feed on roots. Cause plants to wilt when they are 6"–10" high. Plants are sometimes killed.	2 lbs.
Green June Beetle Larvae	1"	Southern U. S. North to Long Island and So. Ill.	Feed on roots, decreasing plants' ability to take up nutrients and moisture.	3 lbs.
Japanese Beetle Larvae	½"–¾"	Most states East of Mississippi River	Feed on roots, decreasing plants' ability to take up nutrients and moisture.	2 lbs.
Rough Headed Corn Stalk Beetle (Sugar Cane Beetle)	⅝"	La., Miss., Tenn., Ark., Mo.	Attack growing buds of young corn plants, causing the center roll of leaves to wither and die.	1 lb.
Seed Corn Beetle	⅛"	Entire U. S.	Feed on kernels of corn, in the soil. Prevent seed from germinating.	1½ lbs.
Seed Corn Maggot	¾"			
White Fringed Beetle Larvae	⅜"	Western Fla. to Eastern La., near gulf coast, Ga., N. C., S. C.	Feed on the roots, lower parts of the stalk, and seed. Retard growth.	2 lbs.
White Grub	⅜"–1"	Entire U. S.	Feed on roots. Corn stops growing at a height of 8"–24". Crop shows spotty growth, with patches of dead or dying plants.	2 lbs.
Wireworms	½"–1½"	Entire U. S.	Eat the germ of seeds. May hollow out seeds, leaving only seed coat. Bore into underground portion of seedling stems. Feed on small roots of mature plants. Crops may not germinate.	2 to 3 lbs. (broadcast) 1 to 1½ lbs. (in the row)
Soil Insect Complex		Corn Belt	Severe root reduction	1 to 1½ lbs.

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NVATA CONVENTION

(Continued)

Left to right: Seth Forsgren, pres. of Idaho vo-ags; Byron Forsyth, VP, Reg. I; Robert Day, VP, Idaho vo-ags and retiring NVATA prexy Carter.

a pocket diary annually designed especially for vocational agriculture teachers and provides other educational material on rodent control.

Leon Tichinin, farm advisor, Santa Clara County, University of California Extension Service, San Jose, California, spoke on "What 20,000 Russians Told Me in Moscow."

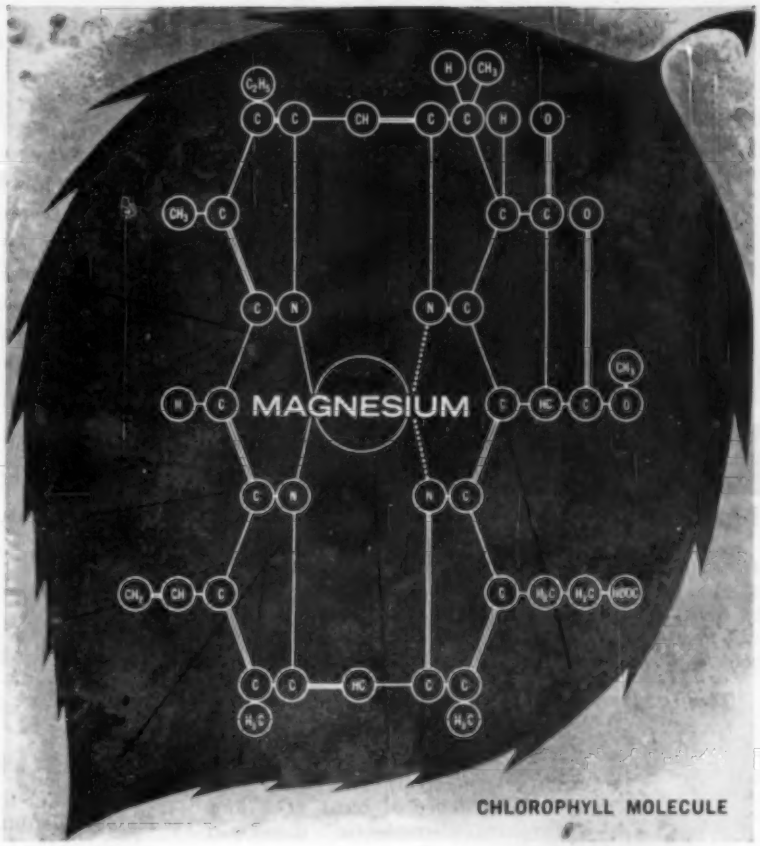
Tichinin was born in Russia, and just recently spent several weeks in Moscow as an agricultural advisor for the U. S. exhibit. He stressed that the Russian people want peace and that they want to be friendly to the United States.

IMPROVING STATE GROUPS

Several group meetings were held on the general topic of ' How to Improve Your State Associations." Some of the topics discussed were: Securing 100 per cent membership, building a program of work, public relations, cooperating with other groups, establishing desirable relations with school administrators and planning and conducting state associations meetings.

Several speakers spoke on the future of agriculture and vocational agriculture. The consensus seemed to be that our changing agriculture has a great future and vocational agriculture will need to make some changes to best serve the people in their midst.

A junior high school in the Los Angeles school system that taught general agriculture as an elective, with the emphasis being placed on horticulture and floriculture, was visited. Also, the Van Nuys City vocational agriculture department was visited. A few acres of land is owned by the department and many



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LATEST FEEDING METHODS CAN HELP YOU *INCREASE* BEEF-CATTLE *PROFITS*

Important trends in beef-cattle feeding include the use of (1) low-roughage, high-energy diets, (2) fermentation feed supplements, and (3) additional Vitamin A fortification. These practices, and others that contribute to the more efficient use of feed, are vitally important when one considers that feed represents up to 75% of the cost of finishing beef for market.

To improve your feeding program and to help maintain herds in good health, Merck now offers three products: DYNAFAC . . . STABIMIX A . . . and AGROZYME. Read about them here. Then, for further information, or to place your order, contact your feed supplier or Merck Feed Products Representative. Merck Chemical Division, Merck & Co., Inc., Rahway, N. J.

DYNAFAC Cuts feedlot bloat and scours

In many parts of the country, feeders are switching to the use of low-roughage, high-energy rations from start to finish during the feeding period. Unfortunately, the use of such rations frequently causes bloat, founder, scours . . . and lost profits!

Low roughage . . . high concentrate . . . no bloat!

The addition of DYNAFAC to high-energy rations effectively reduces the incidence of bloat. The first "chemobiotic" developed for beef-cattle rations, DYNAFAC helps keep cattle on feed, aids in increasing growth and feed conversion, and can help produce lighter-weight cattle faster . . . the kind that produce more desirable, nonwasty primal cuts. DYNAFAC is a feed additive you can't afford to pass up! It works well with corn, barley or milo-based rations and can return as much as one dollar for every dime invested!

Recommended use levels: For feeder cattle—1.5 to 2 grams per head per day. For beef calves—.9 to 1 gram per head per day . . . a cost of less than 1¢ per day!

STABIMIX® A To help prevent or *treat* Vitamin A deficiency

Feedlot rations, which do not contain newly-harvested top-quality grains, can lose much of their vitamin A content before reaching the feed bunks. This lack of vitamin A can weaken stockers' and feeders' resistance to pinkeye, respiratory infections and diarrhea. What's more, animals grazing on poor range or pasture . . . especially during dry spells . . . may also suffer from A-avitaminosis. Cows on vitamin A-deficient rations may abort or drop premature, blind or weak calves.

Losses due to vitamin A deficiency can be prevented! Remove doubts about the vitamin A content or availability of the feedstuffs you use. Give cattle full benefit of all the vitamin A they need by using STABIMIX A! It is economical to use and stable under all conditions.

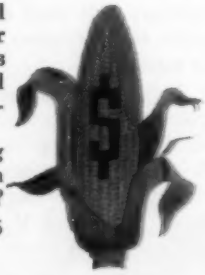
Recommended use levels: For cattle of all ages—1,000-2,000 units per 100 pounds of body weight daily. For cows during last 2 months of gestation and first 3 months of lactation—15,000-20,000 units per cow per day.

REGISTERED TRADEMARK OF MERCK & CO., INC., FOR A VITAMIN A FEED SUPPLEMENT.

AGROZYME® For top weight-gains and feed efficiency

This modern fermentation feed supplement, when added to beef-cattle fattening rations, increases the nutritional value of low-moisture corn and western barley. The use of AGROZYME can result in greater liveweight gains and increased profit margins over feed costs. That means a greater return for each feed dollar you invest!

Growth responses stimulated by AGROZYME have been recorded as high as 24% . . . feed savings as great as 12% . . . and extra profits as high as $10.60 per finished steer! Profit-building results like these have been substantiated in experiment stations and commercial feedlots across the country.



AGROZYME belongs in your feeding program. Why not set up your own split-lot trials and see for yourself?

Recommended use level: .0075 pounds per head per day.

REGISTERED TRADEMARK OF MERCK & CO., INC.

NVATA CONVENTION

(Continued)

non-farm boys conduct their supervised farming program on the school farm.

Farming plus the business allied with it! That's what we're talking about when we speak of agriculture, according to Carroll Streeter, editor of FARM JOURNAL. He posed this question to state supervisors of vocational agriculture at a special breakfast:

WHERE DOES VO-AG "FIT IN?"

"What does vocational education in agriculture have to do with all that? Where does it fit in? Will there be much need for it from here on?" he asked.

"Well, it's obvious, isn't it, that if agriculture is going to grow, the need for training the manpower for agriculture is going to grow, too," he replied. "Not just because we will continue to need *many people* but because they will have to have *more and better training* than ever before. It's a truism to say that farming gets more complicated and more technical in its procedures and requires better business management every day. This will certainly continue. So why haven't you got the possibilities of a growth industry, too?" he asked.

"Perhaps the most urgent thing for the vocational agriculture folks to do is to join with others in a vigorous push, not just acquiescence, in building an adequate and balanced vocational program in America's rural high schools. It would be in the public interest, in the children's interest, and in your interest. That way you could get off the spot of being duck on the rock with the critics shying stones at you.

"The first essential, in my estimation, is a good guidance counsellor. For the life of me I can't see why he wouldn't be as good an investment as a football coach. Yet pitifully few high schools have a properly-trained guidance person. Too often the job is just handed around among the regular faculty. It's poorly done or not done at all," he added.

THREE GROUPS TO CONSIDER

"Obviously you have three groups of boys in rural high schools.

"First there are those who intend

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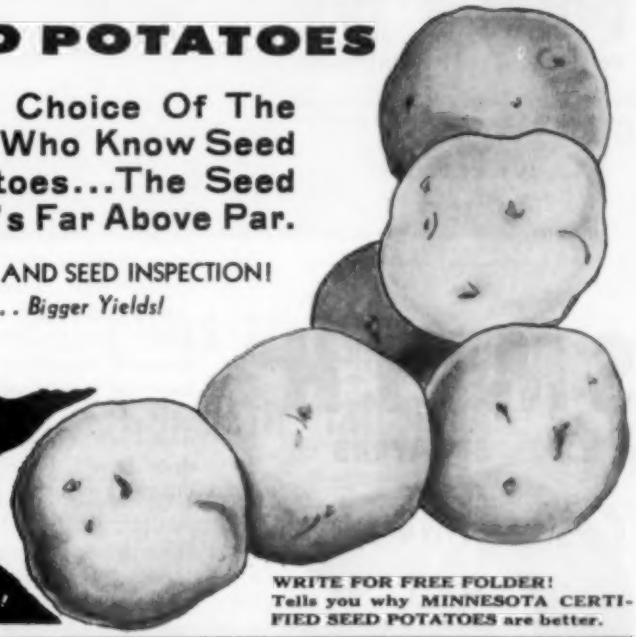

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NVATA CONVENTION *(Continued)*

REGION IV delegates posed for this picture at the NVATA meeting in Los Angeles.

to farm. There's no question about what you can do for those.

"Then you have the boys going into some phase of agribusiness. You can do a lot for them, too. First, they will need a grounding in agriculture if they are to deal with farmers later. Businesses are desperate to find well-trained farm boys to sell to farmers, design products for farmers, buy from farmers. As one business executive told Farm Journal, "We're not just knocking at the door—we're practically breaking the door down." Even so they can't find enough recruits.

"You have that big third group, too—the boys who turn into the dentists, merchants and plumbers. Have you anything to offer them? Well, I think so. Let me be a little visionary for a moment.

Streeter also said that "Vo-Ag can carry its adult program farther than it has. The need for this will grow, not decrease," he added.

"Finally, I hope you can find more ways to give agriculture stature, to make boys proud to be connected with it, to glamorize it," he concluded.

Next year's NVATA meeting will be held in Kansas City, Missouri during the first week in December.

STATE PRESIDENTS in Region IV gathered for this picture.

One spray with Co-Ral gives all-season louse control . . . now for less than half price!

Leading Cattlemen Report Outstanding Louse Control with Co-Ral

"Co-Ral eradicates more than 99% of all lice from 2400 head of cattle. Less than 1% of our feeders showed any evidence of lice infestation after spraying with Co-Ral."

—Wayne Scott, Foreman, Nielson Ranches, Belfry, Montana

"Co-Ral controlled lice over winter without a separate spraying, eliminating the special delousing we used to do in January. This eliminated driving cattle in from winter range and the injuries that resulted in losses as high as $900. Co-Ral now saves us this loss."

—Bruce Weber, Partner-Manager of Shovel Ranch, Merriman, Nebraska

"Lice constitute a very serious problem. These parasites are readily transmitted through an entire herd unless checked immediately upon their appearance. Co-Ral gets rid of these pests."

—William Seckler, Pres., Seckler Feed Yards, Inc., Sterling, Colo.

Co-Ral has been proved so outstandingly effective against lice, and has become so popular with cattlemen, that in just three years of use the price can now be drastically reduced. Already proved the most *effective* louse control, Co-Ral is now more *economical* than ever. Because at the recommended strength for lice you get the longest lasting control—up to 5 months with *just one spraying*—for only 20¢ a head.

You not only save on material cost with Co-Ral, but you save the cost and labor of one or two extra sprayings required by ordinary chemicals.

No wonder cattlemen are so enthusiastic about Co-Ral. It controls both bloodsucking and chewing lice . . . one spraying gives complete kill . . . keeps a herd louse-free up to 5 months. So save spray money, get better louse control and have healthier, better looking stock with Co-Ral. *It works!*

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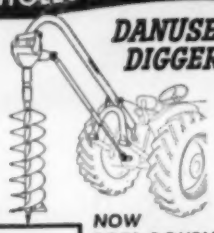

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AMERICAN YORKSHIRE CLUB

Sound management decisions mean

bigger farm PROFIT$

By D. F. WILKEN

WHAT effect has increased production, larger acreages, higher costs and lower returns had on the farmer's purse strings? To find out, a study was made of 210 farm records kept by Illinois farmers cooperating with the University of Illinois through the Illinois Farm Bureau farm management service. These records were selected from seven distinct areas of the state, using the same farms in both 1951 and 1957.

To fully understand the changes that have taken place in farmer buying on these account-keeping farms, one must first recognize some of the changes that have occurred throughout the country as whole. These would include:

▶ A sharp rise in farmers' cash costs as more resources are purchased from nonfarm sources, and as prices of these goods and services have increased.

▶ Farmers now use more than twice as much fertilizer, machinery, and other purchased materials per unit of production than they did 20 years ago. However, labor input per unit of farm output in the United States has decreased by one-half and cropland by one-third since 1940.

▶ Large increases in the use of mechanical power and machinery have reduced farm labor requirements.

▶ Total volume of production assets used per farm was about 70 per cent higher in 1958 than in 1940. Higher prices accounted for much of the remainder of the rise. Volume of production assets used in farming increased at about the same rate as total farm output since 1940.

▶ Investment per farm has gone up for commercial family-operated units. There are wide differences in investments among farms and agricultural areas.

Keeping these trends in mind, it is easier to assimilate the more specific data provided by the Illinois six-year study. Major changes that took place on these Illinois farms are grouped for you in the accompanying chart.

Index numbers of cost rates and prices paid by United States farmers (1947–49 = 100) for the farm cost items shown in this table averaged about *10 points higher* in 1957 than in 1951. Fertilizer costs actually went *down*, while machinery, building materials, and wage rates went up more than 10 points.

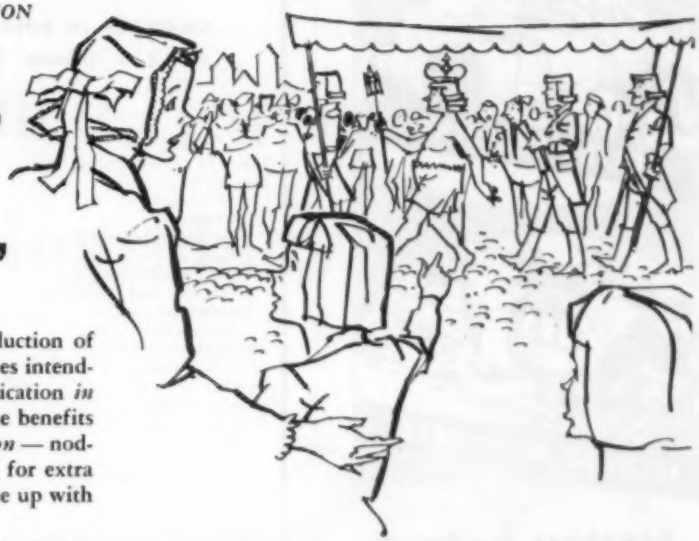
SMALL LABOR INCREASE

Farm costs averaged one-third higher on these farms in 1957 than in 1951. Greatest increase was in machinery, buildings, and taxes, while the least increase was in labor. Total value of all farm production stayed the same, even though the index of prices received for commodities sold by Illinois farmers (1947–49 = 100) went down 18 points. Physical production increased, but it sold at *lower* prices.

It is evident that many commercial farmers are running at a fast

FIRST OF A SERIES ON LEGUME INOCULATION

"but, mother, he has no clothes on!"



Undoubtedly you've watched the hasty introduction of new legume inoculants and inoculation processes intended to make inoculation *easier* or permit application *in advance* by dealer or wholesaler. These sideline benefits are excellent IF *the sole objective of inoculation* — nodulating roots to help legumes use air nitrogen for extra production — is not ignored in the race to come up with "something that will sell."

We are reminded of Andersen's fable of the Emperor's new clothes . . . how a couple of itinerant tailors sold the emperor a suit of cloth so fine only the "pure in heart" could see it. Of course, there was no suit at all! But, being afraid to admit not seeing the suit, the emperor wore it . . . his court praised it and the populace raved about it. All went well until the day of the big parade, led, as usual by the emperor in all his "finery." It was then that the horrible truth came to light as the innocent little child piped up, "But, Mother, *he has no clothes on!*"

There is a parallel to this story in legume inoculants . . . You cannot see inoculant bacteria, nor get them to speak up if still alive.

The *only* test is whether they nodulate the roots of the legume crop in the field. And, if the bacteria aren't there or aren't alive, then it's too late to do anything about it.

All the farmer can rely on in advance, then, is the reputation and integrity of the inoculant manufacturer.

That is why we remind you here that The Nitragin Company originated commercial legume inoculants. Nitragin is the oldest and still the largest manufacturer in the field. With us, inoculants are not a side line — inoculants are our bread and butter — we devote our full time to making the best inoculants possible.

We feel, therefore, a strong responsibility to ourselves as well as to the seedsman, the farmer and the professional agriculturalist — to put on the market only those inoculant products and processes that will perform on the farmer's crop *in the field.*

Please, don't misunderstand. The Nitragin Company is most definitely in favor of making inoculants easier to use. We have been working on this problem for years — for decades, in fact.

And we have come up with sound and PROVED answers for convenient on-farm application . . . for custom inoculation by dealers . . . for preinoculation of seed . . . all easier, quicker methods that HAVE NOT IGNORED THE SOLE OBJECTIVE OF INOCULATION.

BUT, at no time have we at Nitragin been willing to throw the farmer just any old thing, whether it worked or not, just to come up with a gimmick that will sell!

Nor do we intend to!

That's why you are always safe in recommending Nitragin products for legume inoculation.

LOOK FOR THESE PROVED NITRAGIN PRODUCTS

. . . each bearing the familiar orange and black label

NITRAGIN VICOAT PREINOCULATION

Leading seed processors and wholesalers use the VICOAT process to preinoculate alfalfa and clover seed. Seals on, protects and nourishes the bacteria for maximum nodulation. You can SEE it on the seed.

NITRAGIN SOYBEAN CUSTOM INOCULATION

High bacteria concentration, peat-base, and sealed to the seed with Nitra-Coat to permit effective inoculation well ahead of planting.

NITRAGIN INOCULANT FOR ALL LEGUMES

The same reliable orange-and-black packages for on-the-farm inoculation. Guaranteed live bacteria content. New special double-dose Nitragin for soybeans, for use without water.

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How do you get the facts? Easy. Grace Chemical has all the facts for you, in these free booklets:

***The FOLIAR APPLICATION Booklet* tells why spraying is better; how the farmer saves time, labor, equipment; and how to apply Grace Agricultural Grade Crystal Urea to fruit crops and vegetables.**

***The FEED COMPOUND Booklet* tells what Micro-Prilled Urea Feed Compound is; how it cuts feed costs, improves feeding value and increases efficiency of the entire ration; and how to prepare simple formulas for using it as a protein equivalent.**

***Write for your free copies* of both these useful, informative booklets. And if you want additional copies for distribution in the field, we'll gladly supply you free of charge.**

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CHANGES IN FINANCIAL AND PRODUCTION FACTORS on 210 Illinois Farms, 1957 Compared with 1951

Item	1951 Average	1957 Average	Change: Total	Change: Percent
Acres in farm	250	271	21	8
Value of all farm production[a]	$20,459	$20,242	$ −217	−1
Farm costs:[b]				
Soil fertility	$ 764	$ 1,042	$ 278	36
Buildings	$21,100	1,709	609	55
Machinery and equipment[c]	3,722	5,186	1,464	39
Labor	3,475	4,113	638	18
Taxes, seeds, livestock expense and miscellaneous	1,734	2,467	733	42
Interest charge	3,998	5,192	1,194	30
Total nonfeed costs	$14,793	$19,709	$ 4,916	33
Management returns	$ 5,666	$ 533	$ −5,133	−91
Months of labor	21.1	20.5	−.6	−3
Number of cows	8.7	9.2	.5	6
Number of hens	121	150	29	24
Total production:				
Milk per cow	8,345	9,578	1,233	15
Eggs per hen	171	201	30	18
Pounds of feeder cattle	11,182	21,823	10,641	95
Pounds of pork	33,049	41,348	8,299	25
Corn, total bushels	4,536	6,094	1,558	34
Index of prices received by Illinois farmers (1947–49 = 100)	108	82	−18	——

a. Cash sales of products and services less purchased feed, livestock, and inventory change.
b. Includes cash operating expenses, depreciation, and imputed charges for family labor and interest.
c. Includes repairs, electricity and telephone, machine hire, gas and oil, and depreciation.

pace just trying to keep ahead. There were shifts in the organization of resources on these farms, which greatly influenced farmer buying of goods and services used in production.

Average size of farms increased 21 acres. More land was shifted to high cash return crops, such as corn and soybeans. Livestock enterprises that require less labor, such as feeder cattle and hogs, were expanded more than labor consuming enterprises like dairy and poultry.

Product *specialization* became more evident. The law of comparative advantage says that each farmer tends to produce the products he can produce and sell to his greatest *advantage*.

There has been a persistent reduction in the margin available to cover *errors of management*. This point is illustrated by the increasing proportion of gross income that is being required merely to cover cash costs. The per cent of gross income (total value of farm production) spent for cash operating expenses, machinery, and building replacements on 500 northern Illinois farms increased from an average of 45 per cent for the 1950–53 period to 54 per cent for the 1954–57 period. On 120 southern Illinois farms, the percentage increased from 70 to 80 in the same period. Even relatively small errors that increase costs or decrease value of output could reduce the farmer's margin for living to the extent of inflicting a *loss* in the whole farm business.

Some farmers are slow to recognize the changes that are taking place. They are gearing their capital expenditures to the past or present *rather than to the future*. Other farmers refer to costs as a necessary evil. They do not like higher costs each year. Yet such costs are difficult to cut drastically without reducing output. If we conclude that it takes money to make money, farmers are striving to get their money's worth in all purchases. They send the hired man to the fields with a bigger tractor, pulling a larger machine, on a larger farm that is producing higher per acre yields.

Efficiency of production and the trend toward larger and more specialized farms offer more opportunity and more incentive to apply agricultural technology. The net result can be *more production per unit of cost*. Tradespeople should heed these facts if they are to be a part of a prosperous agriculture. More emphasis needs to be given to helping farm people work out problems that confront them as individuals, families, and groups.

Progress has already been made in *lowering per unit costs* of production. The United States index of operating costs per unit of production (1947–49 —100), adjusted to constant dollars, has dropped 14 points on hog-dairy farms, 8 points on cattle-hog farms,

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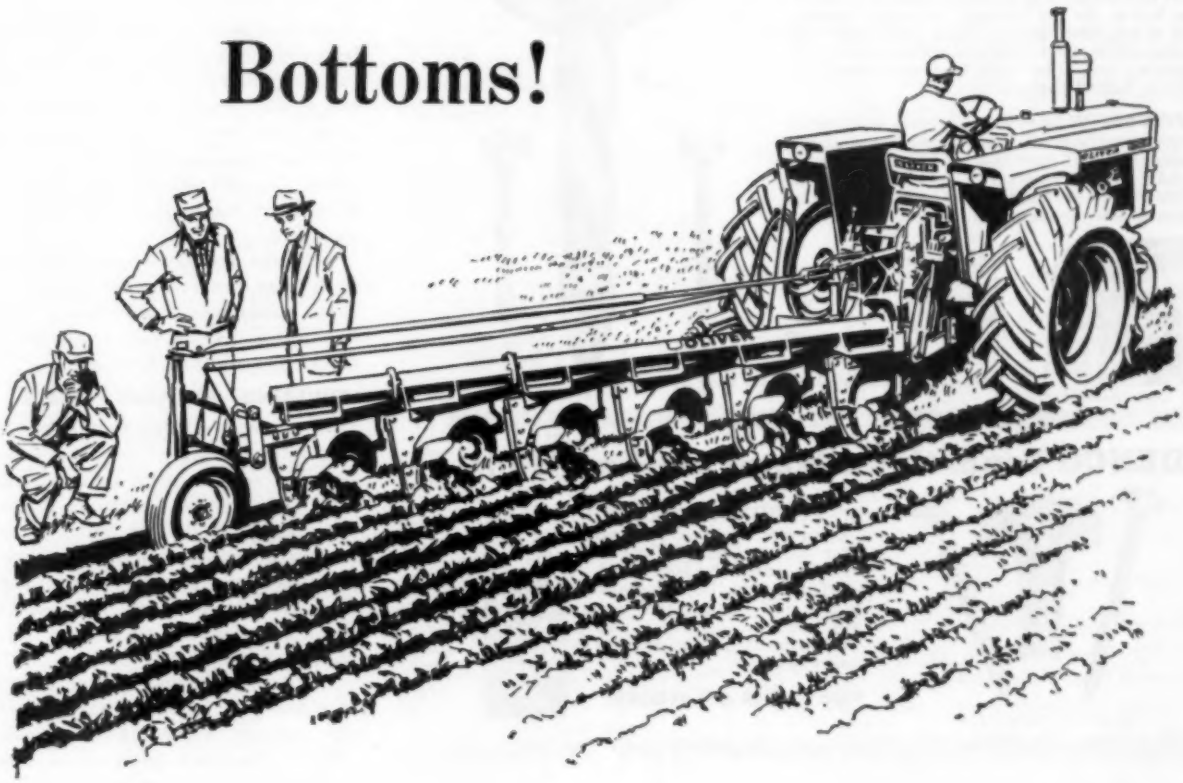

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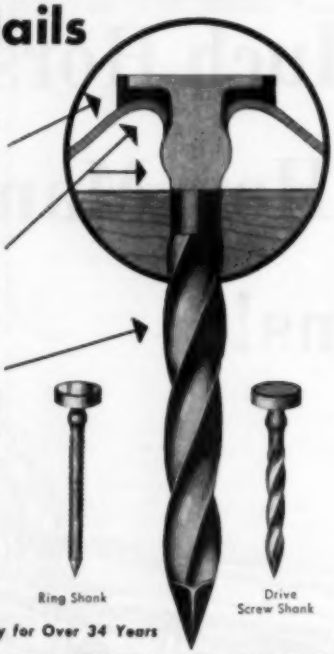

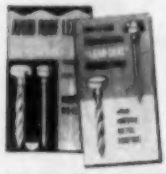

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and 9 points on cash grain farms since 1951, even though total expenses have gone up.

The proportion of total cash expenditures per farm used for feed and cash operating expenses increased from 55 per cent in 1951 to 62 per cent in 1957.

Observations drawn from the Illinois study indicate that more and more farmers are being forced to install equipment to save labor as they try to expand production. Also, there has been a moderate increase in the number of major machines like self-propelled combines, picker-shellers, and large tractors. However, expenditures for all capital goods, including these machines, make up a lower proportion of total cash expenditures today than they did ten years ago.

Farmers are *buying more fertilizer* each year, but they are more cautious about what they buy. There has been a definite shift to the use of more *high-analysis* fertilizers.

LOWERING PER-UNIT COSTS

In general, all developments that help farmers save labor and lower per unit cost of output are attracting a lot of attention. Changes in crop varieties that permit using higher populations to get higher yields reduce fixed per bushel costs for land and labor. There will be a need to develop machines to handle these higher yields.

Sharp pencils are figuring how to mix low-cost livestock rations. In the current competitive race for efficient livestock production, more farmers are finding ways to mix low-cost rations when they can find good sources of base pre-mixes of needed antibiotics and vitamins. Farmer remodeling plans lean toward the "material flow of feed grains" principle.

It all adds up to this: Farmers who are able to lower their per unit cost output through 1) applying improved technologies, 2) enlarging their farms, or 3) further specializing their production are apt to enjoy profitable returns. Such decisions require careful study of the farm business and wide use of the limited resources that are available. Farmer buying reflects the efforts farmers are making to bring these changes about.

D. F. Wilkin is farm management specialist, Department of Agricultural Economics, College of Agriculture, University of Illinois, Urbana.

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Buffalo—Lorin Catchpole, Buffalo
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Canton—W. R. Bryant, Canton
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Elkton—Loren Paulsen, Elkton
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Betheada—Charlie Shipley, Thompson Station
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Bledsoe Co.—James Lemon, Pikeville
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Meridan—Lester Smith, Meridan
Merkel—C. H. Collinsworth, Merkel
Mesquite—F. A. Lloyd, A. B. Kyle, Mesquite
Mexia—Dale Brown, Mexia
Miami—Chas. D. Woodfin, Miami
Midland—J. R. Cuffman, J. F. Lynch, Midland
Midlothian—James C. Permenter, Midlothian
Midway—Clint E. House, R. 3, Henrietta; W. E. Mashburn, Rt. 8, Waco
Milano—Shelby G. Smith, Milano
Milby—W. A. Thornton, 1601 Broadway, Houston
Mildred—James H. Davis, Corsicana; Rt. 4
Miles—Dawson Coleman, Miles
Milford—M. E. McFarland, Milford
Miller Grove—Glen Ferguson, Miller Grove
Millsap—J. D. Carter, Millsap
Mineola—Lester Cole, Mineola
Mineral Wells—C. N. Merrell, E. P. Chastain, Mineral Wells
Mission—Robert Leidner, Mission
Mobeetie—Bob Halford, Mobeetie
Monterey—Thomas Neely, Waylon Carrol, Monterey
Montgomery—Donald Denn, Montgomery
Moody—H. D. Stearman, Moody
Moran—Finus J. Branham, Moran
Morgan—George Ragsdale, Morgan
Morton—Owen D. Young, Morton
Mosheim—R. L. McElhany, Mosheim
Moulton—W. L. Young, Moulton
Mt. Enterprise—B. W. Jackson, Mt. Enterprise
Mt. Pleasant—A. D. Taylor, Mt. Pleasant
Mt. Vernon—Neal Solomon, Mt. Vernon
Moselle—A. L. Newman, Fisk
Muenster—Edgar Dyer, Muenster
Muleshoe—Bill Bickel & Jerry Adams, Muleshoe
Mullin—Argie Whisenhunt, Mullin
Munday—Elmer Kuntz, Munday
Nacogdoches—N. K. Quarles, Nolan Alders, Nacogdoches
Natalia—B. C. McDonald, Natalia
Navarro—Mack Venable, Rt. 2, Seguin

UTAH

Navasota—H. O. Henderson, Navasota
Nazareth—T. D. Hefferman, Nazareth
Nederland—William L. Cook, Nederland
Needville—Herbert Schumann, Needville
New Braunfels—M. R. Woomack, Jesse E. Dickey, New Braunfels
New Boston—Earl Lewis, New Boston
New Caney—Arthur B. Harvey, New Caney
Newcastle—Ward Pendleton, Newcastle
New Deal—Bobby Ray Hensley, New Deal
New Diana—Edward Simpson, Diana
New Home—Benny Pryor, Tahoka
New Summerfield—David Irwin, New Summerfield
Newton—George Cook, Harold McEwin, Newton
New Waverly—Rex G. White, New Waverly
Nixon—W. I. Trant, Nixon
Nocona—R. F. Thompson, Nocona
Nordheim—W. C. Busby, Nordheim
Normangee—Joe R. Covington, Normangee
Northeast Houston—Travis Batson, Houston
North Fannin—Wendell Foreman, Ivanhoe
North Hopkins—Roger Arnold, Sulphur Springs
Northside—Leon Burkham, Vernon
John Marshall—Marvin W. Finto, B. W. Spannagel, Rt. 11, Box 158c, San Antonio
Northwest—Mays Fuqua, J. W. Price, Justin
North Zulch—Bill Norman, North Zulch
Norton—Roger H. Blackman, Norton
Novice—Harold E. Pittard, Novice
Nueces Canyon—Darrell Hargrove, Barksdale
Oakwood—Lee Bing, Oakwood
Odem—B. R. Allen, Odem
O'Donnell—J. W. Reed, O'Donnell
Oglesby—Elbert H. Hough, Jr., Oglesby
Oklaunion—Bob K. Jacobs, Oklaunion
Olden—Gilbert Copeland, Olden
Olney—Herman Boone, Olney
Olton—Calvin Horn, Max Malone, Olton
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Orangefield—Melvin Smith, Orangefield
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Orchard—Eugene Jekel, Orchard
Overton—Charles Evans, Overton
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Pawnee—L. D. Turner, Pawnee
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Pearsall—L. E. Downes, Pearsall
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Pep—Fred L. Dirickson, Pep
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Perryton—Jack Dyer, Perryton
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Pharr-San Juan—Ben Stricklin, Pharr
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Pittsburg—Joe Winkle, Pittsburg
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Plano—L. W. Cason, Plano
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Post—D. H. Koeninger
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Poth—L. F. McClure, Poth
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Quail—Frank E. Kennedy, Quail
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Reagan Co.—E. D. Steel, Big Lake
Redland—J. W. Dunn, Lufkin
Redwater—Douglas Meadows, Redwater
Richards—George S. Duncan, Richards
Richland Springs—R. J. Powell, Richland Springs
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Rio Vista—Curtis Wilkinson, Rio Vista
Rising Star—H. L. Geye, Rising Star
Riviera—John A. Aregood, Riviera
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Robert Lee—Hulan Harris, Robert Lee
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Scurry-Rosser—Charley J. Jones, Scurry
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Sharp—Kent Sartor, Buckholts
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Silsbee—O. O. Miller, Silsbee
Silverton—Jack Mayfield, Silverton
Simms—John R. Meadows, Simms
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Smithville—Clarence C. Karcher, Smithville
Smyer—John Horan, Smyer
Snook—Alton Giesenschlag, Snook
Snyder—W. R. McMullen, Snyder
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Somerville—M. A. Giesenschlag, Somerville
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Southwest—Howard Richardson, Atascosa
Spade—James Easter, Spade
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Splendora—J. D. Franklin, Splendora
Spring—William L. Parten, Spring
Spring Branch—Amos Adams, 9000 Westview; Houston
Springlake—Earnest G. Gaston, Earth
Springtown—Ray Rector, Springtown
Spur—W. W. Gregory, Tommy Kissinger, Spur
Spurger—Travis Scott, Spurger
Stamford Co. Line—Weldon Holbrooks, R. B. Rowland, Stamford
Stanton—Milburn Wright, Stanton
Star—Russell T. Boyd, Star
Stephen F. Austin—A. K. Kenley, Austin
Stephenville—Ralph S. Moser, Rex Stephens, Stephenville
Sterling City—Fred Ign, Sterling City
Stinnett—Harry W. Youngblood, Stinnett
Stockdale—Melvin Neil, Stockdale
Strawn—Joe Owens
Stratford—Duard Lamb, Stratford
Sudan—Edgar Chance, Sudan
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Sulphur Bluff—Jim Burns, Sulphur Bluff
Sulphur Springs—Billy Conner, S. A. Beckham, Sulphur Springs
Sundown—Edward White, Sundown
Sweetwater—Frank Davis, Sweetwater
Tabasco—Maximo Diaz, Jr., Arturo Villarreal, La Joya
Taft—Bobby F. Jones, Taft
Tahoka—V. P. Carter, Lester Adams, Tahoka
Talpa—S. M. Domney, Talpa
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Tatum—J. W. Irwin, Tatum
Taylor—Tom Galbreath, Taylor
Teague—J. E. Wells, Teague
Temple—Paul Culp, Temple
Tenaha—H. H. Lewis, Tenaha
Terrell—C. E. Donald, Terrell
Texarkana—N. B. Finley, Texarkana
Texas City—W. L. Davis, Texas City
Texline—Bobby Browning, Texline
Thorndale—J. B. Farrell, Thorndale
Thornton—Barnett Lown, Thornton
Thrall—George Smith, Thrall
Three Rivers—Carl Weber, Jr., Three Rivers
Three Way—Keath Coburn, Maple
Throckmorton—W. B. Owen, Throckmorton
Timpson—Cecil Wharton, Timpson
Tioga—W. A. Fielden, Tioga
Tolar—Harley K. Reed, Tolar
Tomball—Poley Parker, Tomball
Tom Bean—Grady Teague, Tom Bean
Trent—Albert A. Maberry, Trent
Trinity—Dwight Hine, Trinity
Trenton—Jim R. Butler
Troup—R. E. Soape, Troup
Troy—H. D. Kay, Jr., Troy
Tucker—Robert Lee Ballard, Palestine
Tulia—Weldon Mansfield, Don Ham, Tulia
Tuloso Midway—J. O. Rushing, Rt. 3, Corpus Christi
Turkey—Royce Moffitt, Turkey
Turnersville—James Daniel, Turnersville
Tyler—Wallace Hawkins, Lawson Sowell, Tyler
Union Grove—Arnold Harris, Gladewater
Union Hill—Billy Bob McWhorter, Bettie
Utopia—Max Amann
Uvalde—Harper Rawlings, Uvaide
Valley Mills—George Mingus, Valley Mills
Valley View—Lloyd Smith, Valley View
Van—C. J. Atkins, Van
Van Alstyne—W. A. Denton, Van Alstyne
Van Vleck—M. H. Ellisor, Van Vleck
Vega—Charles G. Berry, Vega
Vernon—Francis E. Todd, Vernon
Victoria—A. G. Garrett, James Fitts, Victoria
Vidor—W. L. Beard, Richard L. Havens, Vidor
Waco—Harold Z. White, Waco
Waelder—James P. Alford, Waelder
Wall—Glynn Hill, Wall
Waller—Olen Gilbert, Waller
Wallis—Max B. Walker, Wallis
Walnut Springs—W. H. Heartsill, Walnut Springs
Ward Co.—J. D. Witcher, Grandfalls
Warren—Billy M. Wiggins, Warren
Waskom—Herbert Brward, Waskom
Waxahachie—O. W. (Jake) Adams, Waxahachie
Weatherford—S. E. Skiles, W. L. Barber, Weatherford
Weimar—R. L. Moore, Weimar
Wellington—Danny Garcia, Wellington
Wellman—Homer E. Jones, Wellman
Wells—E. E. Alexander, Wells
Weslaco—J. R. Tocquigny, Weslaco
West—O. L. Nedbalek, West
Westbrook—John P. Hines, Westbrook
West Columbia—Howard L. Pickle, West Columbia
West Lamar—Geral B. Kennedy, Brookston
West Oso—C. W. Altman, Corpus Christi
Wharton—Merrill Barfield, Jr., Freddie George-Wharton
Wheeler—Dennis Wilks, Wheeler
White Deer—Donald Booth, White Deer
Whiteface—James M. Carroll, Whiteface
Whitehouse—Gus W. Cain, Whitehouse
Whitesboro—Gene Foster, Whitesboro
Whitewright—O. V. Barker, Whitewright
Whitharral—O. L. Harris, Whitharral
Whitney—Herbert Harp, Whitney
William B. Travis—Thomas Branyon, Austin
Willis—James H. Moore, Willis
Wills Point—J. T. Wiggs, Wills Point
Wilmer-Hutchins—Bruce Moreland, Hutchins
Wilson—Bobby Lee, Wilson
Winnsboro—R. E. Johnson, Billy C. Lyons, Winnsboro
Windthorst—Homer Lowrance, Windthorst
Winona—James Boultinghouse, Winona
Winters—Lon McDonald, Leland Robinson, Winters
Woden—Albert Thompson, Woden
Wolfe City—Dorman H. Tucker, Wolfe City
Woodson—Thomas Elliston, Woodson
Woodville—Orman Marsh, Woodville
Wortham—G. D. Wren, Wortham
Wylie—W. W. Barker, Wylie; J. E. Moore, Abilene
Yoakum—A. W. Lilley, Yoakum
Yoe—C. N. Titsworth, Cameron
Yorktown—Aldo Gohlke, Yorktown
Yselta—Eldon Lawrence, Carl Westbrook, Yselta
Zapata—Gilberto Vellereal, Zapata
Zavalla—James H. Pulliam, Zavalla
Zephyr—George W. Peck, Zephyr

UTAH

Agricultural Extension Service, Utah State University, Logan

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Assoc. Dir.—Dr. Gene Jacobsen
Sup. Agr. Programs—Leon Michaelsen

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Animal Husbandman—George R. Henderson
Clothing—Theta Johnson
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Dairyman—John Barnard
Dairy Manufacturing—A. J. Morris
Engineer—Wayne B. Ringer

VERMONT, VIRGINIA

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Farm Management—Lloyd Clement
Forester—John Vallentine
Home Economics Programs—Thelma Huber, Sup.
Home Mgnt. & Furnishings—Rhea H. Gardner
Horticulturist—A. B. Call, Jr.
Livestock Marketing—Morris H. Taylor
Nutritionist—Elna Miller
Publications Editor—Louise Peterson
Radio and TV—Arthur Higbee
Recreation—C. R. Jensen
Sheep & Wood—Russell R. Keetch
Sociologist—William A. DeHart
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Assoc. Supervisor Home Economics—Jenniev Poulson
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Kane—D. Wayne Rose, Kanab
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Piute—Rulon W. Buck, Junction
Rich—W. T. Maughan, Randolph
Salt Lake—Joe Parrish; asst., Lynn Esplin
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Simmit—J. Reed Moore, Coalville
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Uintah—Ben Lindsay
Utah—C. R. Acord; asst., Joel C. Barlow, City & Co. Bldg., Provo
Wasatch—P. R. Daniels, Heber City
Washington—J. Keith Hughes, St. George
Wayne—J. M. Hall, Loa
Weber—Melvin S. Burningham, asst., Fay Boyer, 373 Federal Bldg., Ogden

Division of Vocational Agriculture, Department of Education, Salt Lake City

Supervisor—Elvin Downs
Teacher Trainer—Stanley S. Richardson, Prof. Agr. Educ., Utah State Agr. College, Logan

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Bear River—Rex Jensen, Kenneth Saline, Garland
Beaver—Wells S. Farrer, Beaver
Bingham—Ralph Jensen, Bingham
Box Elder—Norwood Hyer, Dee Hortin, Brigham City
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Davis Co.—Clinton Zollinger, LaVar Godfrey, Kaysville
Delta—Dee Peterson, Delta
Dixie—Harold Taylor, St. George
Enterprise—Byron O. Peacock, Enterprise
Escalante—Grant McMullin, Escalante
Grantsville—Fred Peterson, Grantsville
Gunnison Valley—Richard Kjar, Gunnison
Hurricane—Elmer A. Graff, Hurricane
Jordan—Richard Campbell, RFD No. 2, Sandy
Juab—Jay Dalley, Nephi
Lehi—Byron Memmott, Lehi
Millard Co.—Robert Nielson, Fillmore
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North Sanpete—Lawrence Kelson & Elden Westenskow, Mt. Pleasant
North Sevier—E. Smith Peterson, Salina
North Summit—Mark Matley, Coalville
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Parowan—Thales C. Brown, Parowan
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Piute Co.—Gregorson Hafen, Circleville
Pleasant Grove—Willis Banks, Pleasant Grove
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South Emery—Keith Albrecht, Ferron
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South Sevier—Leon Tillett, Monroe
South Summit—Elmo Hoyt, Kamas
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Springville—Loren Phillips, Springville
Tooele—Leland L. Beckstrom, Tooele
Tropic—James Quilter, Tropic
Uintah—Doyle Landon, Vernal
Union—Elvon Spencer, Roosevelt
Valley—Doran Lamb, Orderville
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Wayne—Fred Hellstrom, Bicknell
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VERMONT

Agricultural Extension Service, University of Vermont, Burlington

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Director—Robert P. Davison
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Animal Pathologist—Wesson D. Bolton; asst., James R. Wadsworth
Clothing—Lois Soule
Dairyman—Warren A. Dodge; asst., William P. Leamy, R. Fitzsimmons
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Forester—Raymond T. Foulds, Jr.
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Essex—Earle D. Clark, Guildhall
Franklin—assts., Walter G. Rockwood, Erden Bailey, Albans
Grand Isle—Robert F. White, North Hero
Lamoille—Silas H. Jewett, Morrisville
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Grand Isle—North Hero
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Derby Academy—Dale Conley, Derby
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Essex Junction—Donald Grady, Essex Junction
Highgate—Laurent Cadieux, Swanton
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Peoples Academy—Everett Harris, Morrisville
Richford—Alvah Bartlett, Richford
So. Royalton—Ronald Cook, So. Royalton
Thetford Academy—William Peters, Thetford
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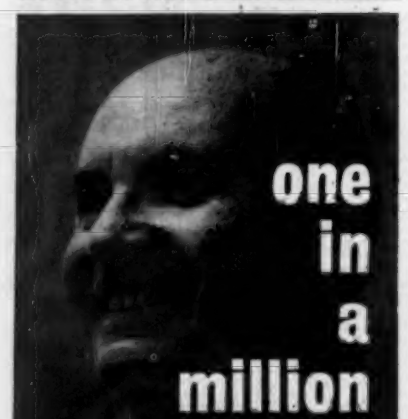

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Albany—Wesley J. Seamands; County Court House, Laramie
Big Horn—John W. Eckerdt, Box 601, Basin; asst., Thomas A. Shaffer
Campbell—Melvin E. Lynch, Gillette
Carbon—Perry B. Coxe, Jr.; asst., Dick G. Hiser, Rawlins
Converse—Orville L. Nicholls, Douglas
Crook—Warren T. Ferrell, Sundance
Fremont—William L. Duncan; assts., Ray A. Wolfley, Paul M. Drake (Indian Reservation), Lander; James W. Legg, Riverton
Goshen—B. H. Trierweiler; area advisor, John C. Bishop
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Johnson—Robert E. Quade, Box 351, Buffalo
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Division of Vocational Agriculture, Department of Education, Cheyenne

State Consultant—Percy Kirk
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Baggs—Oliver Wille, Baggs
Basin—Hershel Eggerman, Basin
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Buffalo—John Driskill, 326 S. Burritt Ave., Buffalo
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Cheyenne Sr. H. S.—Clark Allen, Cheyenne
Clearmont—Neil Harrington, Clearmont
Cody—Paul Sweitzer, Cody
Cokeville—William Despain, Cokeville
Cowley—Jack Wilcock, Cowley
Deaver—George Butler, Deaver
Douglas—James Durkee, Douglas
Encampment—John Burke, Encampment
Gillette—Dwight Knott, Gillette
Glendo—Dennis Daley, Glendo
Glenrock—William Lindsey, Glenrock
Greybull—Kent Judy, Greybull
Hawk Springs—Harold Fackrell, Hawk Springs
Hillsdale—Ray Riedesel, Hillsdale
Hulett—Earl Boardman, Hulett
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Lander—Arland Carlson, Lander
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Lovell—Ivan Snell, Lovell
Lusk—Robert Bramlet, Lusk
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Manderson—Leonard Roehrkasse, Manderson
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Powell—Fay Thompson, Conrad Sutton, Powell
Riverton—Roy Reno, Riverton
Saratoga—Fred Brownlee, Saratoga
Sheridan—A. M. Hartwig, Sheridan
Shoshoni—Robert Meredith, Shoshoni
Sundance—Don Rolston, Sundance
Tensleep—Richard Jensen, Tensleep
Thermopolis—Ivan Million, Thermopolis
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NEW IDEA IN FLY CONTROL

A NEW idea in fly control is being used successfully by California poultrymen. "Use chickens themselves to control the flies caused by chickens."

During experimental work, John Rodriguez, a University of California technician, noticed that wherever bantam hens wandered loose under the cages of other birds, there were few fly larvae and few flies.

He tried the method on a larger scale, using cockerels. Results: The cockerels pecked up practically all the fly larvae and scored a dramatic success as fly killers.

The system is both cheap and simple. Here's how it works: A poultryman acquires male chicks, usually free, from hatcheries which normally discard the unproductive birds. He raises the chicks in a brooder, inoculates them against disease, then releases them under the cages. The cockerels clean up larvae and pupae that would otherwise grow into swarming thousands of flies.

Eighty-five per cent of the cockerels, in one instance, survived and were sold when mature. Returns from these sales more than offset brooder and initial feeding costs.

If you would like more details on this program, write to Mr. Rodriguez at the University of California, Riverside.

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AUGUSTA

in summing up

A Special Announcement

As a reader of magazines you have become acquainted with the editors, some authors, several "readers-who-like-to-write-to-the editors," and advertisers.

But how well do you know the *companies who publish these magazines?*

Probably the only time you hear much about a publisher is when one of them buys or sells a publication—which prompts me to announce:

Ware Bros. Company, Inc., publishers of COUNTY AGENT & VO-AG TEACHER, announces the purchase of "the magazine for agricultural leaders" by one of the outstanding agricultural publishing houses in the country.

American Fruit Grower Publishing Company, Willoughby, Ohio, will assume publication of the magazine with the February 1960 issue.

All successful publishing companies have one thing in common: they have found what it takes to obtain *reader acceptance.*

They have an intense desire to serve the reader. Perhaps you have noticed the increased services of this magazine each succeeding year. A good example of an added service this past year was the Coffee Hour which this magazine sponsored for about 250 vo-ag teachers at the annual FFA convention in Kansas City.

The sentiment expressed by Sam Lewis Veitch, president of Ware Bros. Company, Inc. in his "Dear Reader" message in last year's Directory Issue seems appropriate now:

"So we say thanks . . . thanks for giving us an opportunity to serve you and thanks for your approval of our efforts."

This change comes at a time when vast changes are taking place in our country's entire economy—not just agriculture. We have come to accept change as commonplace these days. But to you readers who are concerned about the future direction of this magazine, I'd like to publish part of a county agent's letter and my answer to it . . .

Waseca, Minnesota
December 14, 1960

Dear Mr. Berg:

Reading your editorials in COUNTY AGENT & VO-AG TEACHER magazine has given me the courage to write to you in regard to our Farm and Home Management Program that we are carrying on here in Waseca County.

First of all I want to thank you for the complimentary copy of your farm magazine, COUNTY AGENT & VO-AG TEACHER. The program that I would like to write you about has been carried on in this county for a period of ten years. We carried it originally on a voluntary basis and the past seven years it has been on a membership basis. That is, the farm families that belong pay a fee each year. We have a memorandum of agreement with the University of Minnesota and they also contribute a fixed amount of money. The association has a full-time agent. We started out with 55 members and now the association has 60 members and the family fee is $95 a year.

From the experiences with the association, we feel that it is a very effective way of doing extension work.

CLETUS F. MURPHY
County agricultural agent

Now here's my answer to Mr. Murphy and to all ag leaders who may want to know what direction this magazine's editorial program will be headed in the '60's.

Dear Mr. Murphy:

This morning's mail was really a pleasure to open. Besides yours, we received letters from a county agent who says he's going to reappraise his plan of work for 1961 after reading our last issue, a vo-ag teacher, and a college dean. All of you commented on specific phases of our editorial program—a program which *you* have helped build!

The mail bag is like a barometer. It reflects the fears, anxieties, dreams and aspirations of all ag leaders.

We like your program and hope to feature it in a coming issue. Keep up the good work.

Our editorial program for ag leaders will continue the same as in the past: 1) publicizing farm business-management programs such as yours; 2) presenting new farming ideas; 3) helping to improve educational programs for rural youth; 4) helping to improve your communicative skills, and 5) keeping you posted on what's going on in your own professions. Thank you.

Gordon L. Berg
Editorial Director

P. S. In case you were wondering, I'm happy to say that I will continue to guide our "editorial program for the sixties." GLB.

Mastitis spreads swiftly

Stop spread– clear up fast with Soxipent

Soxipent disperses its bacteria-killing components quickly throughout diseased quarters. Yet it is soothing and healing to inflamed udder tissues. It combines 2 selected antibiotics and 2 sulfas with cobalt for broad bactericidal action, fast results. Consistently effective, even in stubborn mastitis cases.

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